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GUIDE  
TO THE  
National Exposition  
OF  
RAILWAY APPLIANCES  
CHICAGO

Thursday, May 24, to Saturday, June 23, 1883.

WITH DIAGRAM SHOWING THE SITES AND LOCATIONS OF RAILROADS.

ILLUSTRATED  
GUIDE AND MAP  
OF THE  
CITY OF CHICAGO.

CHICAGO:  
BANK, McFARLANE & CO., PUBLISHERS.  
1883.

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# **CRANE BROS. MFG. CO.**

MANUFACTURERS OF

STANDARD WEIGHT LAP WELD

## **Wrought Iron Pipe**

**STEAM PUMPS,**

**STEAM AND GAS FITTINGS,**

**STEAM AND HYDRAULIC FREIGHT AND PASSENGER**

**ELEVATORS,**

**STEAM HOISTING ENGINES FOR FURNACES, MINES, ETC.**

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**GEO. B. CARPENTER & CO**

SUCCESSORS TO  
**GILBERT HUBBARD & CO.**

DEALERS IN

**SUPPLIES**

**FOR ROLLING MILLS  
MANUFACTORIES**

**MINING**

COMPANIES

**& RAILWAYS**

SEND FOR CIRCULARS  
**202 & 208 WATER ST. CHICAGO**

SEE ALSO PAGE 50.

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18

*National Exposition of Railway Appliances.*

**CRERAR, ADAMS & CO.,**

**11 and 13 Fifth Ave.,**

**CHICAGO,**

Manufacturers, Importers and Dealers in

# Railway Supplies

**OF EVERY DESCRIPTION.**

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Pompton Steel & Iron Co.'s Steel Car Springs.

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Wm. Jessop & Sons' English Tool Steel.

Morris Tasker & Co.'s Boilers Tubes.

Dudgeon's Improved Hydraulic Jacks.

C. G. Hussey & Co.'s Bar & Sheet Copper.

Sheffield's Velocipede Hand Cars.

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HUNTINGTON'S PATENT TRACK GAUGE, TRACK  
TOOLS, CAR TRIMMINGS, HEAD LIGHTS,  
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*National Exposition of Railway Appliances.*

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Car Springs and Steel,

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**ST. LOUIS, MO.**

**THE STANDARD STEEL WORKS,**

Locomotive Tires,

**PHILADELPHIA, PENN.**

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Railway Supplies of all kinds at  
**MANUFACTURERS' Prices.**



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**Machinists, Founders**

AND MILL FURNISHERS.

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**ALL SUNDRIES USED IN PAINT SHOPS.**

**A. PLAMONDON M'F'G CO.**  
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—AND—  
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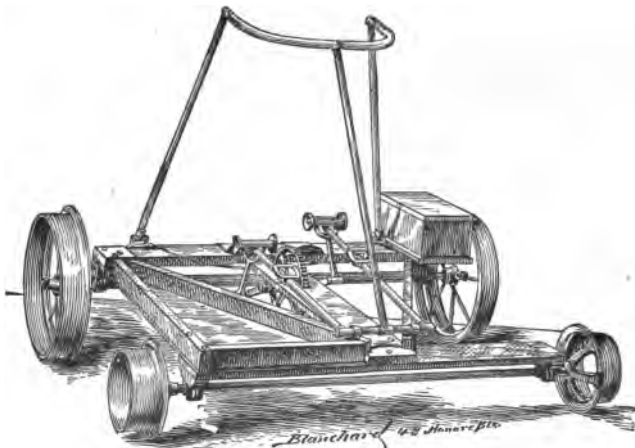
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## Jeffery's Railroad Velocipede.



This Velocipede meets the requirements of all needing a light conveyance from one point to another on a railroad, and will carry one, two or three persons, or a load of corresponding weight. One or two can operate it, or, if three are carried, all can aid in its propulsion. The operator can stand on the foot levers, using his whole weight to do the work, or sit on the hand rail if a rest is desired, or when favored by the wind; a convenient tool box is supplied, which forms a seat for one who may be resting, and a large space is provided in the platform for carrying wire, paint cans or other supplies.

### ADVANTAGES.

It entirely avoids the friction of the flanges against the side of the rail, which can not be said of any three-wheeled Velocipede.

It can be run backward or forward, and will not jump the track in either direction.

The rider is in the best position to use his full power and to look out forward or backward for approaching trains.

The hand rail is capable of folding down on the platform, and the wheels can be easily removed to make it portable, or to conveniently place it into a baggage car.

It weighs 160 pounds. Price, delivered at any Railroad in Chicago, \$40.

For further particulars, address,

**T. B. JEFFERY,**

38 and 40 So. Canal Street,

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# J. H. BASS,

—MANUFACTURER OF—

## Car, Engine, Tender, Truck and Driving Wheels, Cylinders, RAILROAD AND GENERAL CASTINGS.

Ingot Molds and Rolling Mill Works a Specialty.



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Works, Near C., R. I. & P. R. R. Shops,

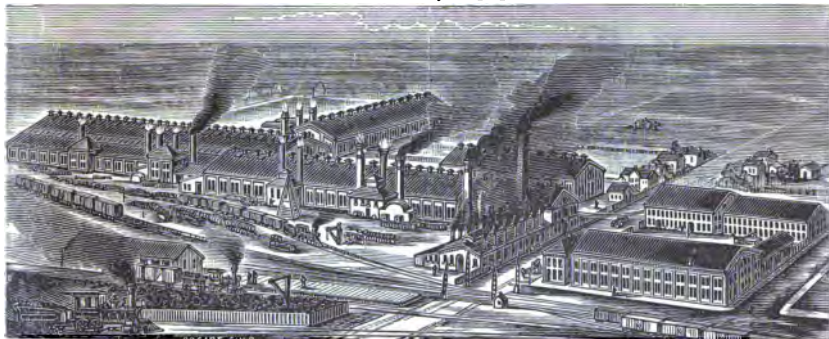
**CHICAGO, ILL.**

ESTABLISHED 1853.

INCORPORATED 1873.

## BASS FOUNDRY & MACHINE WORKS,

Manufacturers of Steam Engines, Boilers, Heavy Machinery, Car Wheels and Railroad Casting, Hammered  
Axles and Heavy Forgings.



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**Locks and Vault Work.**

We make a Specialty of FIRE and  
BURGLAR PROOF

**RAILWAY SAFES**

**Hall's Safe & Lock Co.**

*No. 67 WASHINGTON STREET,*

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—AND—

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NEW YORK,  
CLEVELAND,**

**St. LOUIS,  
LOUISVILLE,  
SAN FRANCISCO.**

POST & COMPANY,  
—MANUFACTURERS OF—  
**CAR TRIMMINGS, LAMPS**  
ETC., ETC.

Pat'd Nov. 23, '89; Apr. 98, '73;  
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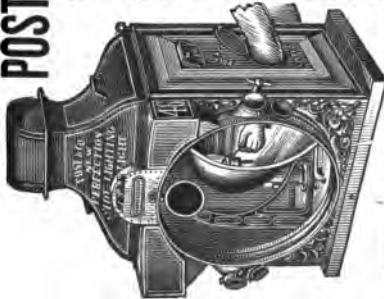
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**NEW PERFECTION**

**SIDE-LIGHTING**

**HEAD-LIGHT,**

Largest **BEST** Head-Light  
AND MADE.



View showing Side Signals,  
Signal Colored Signals with  
Reflector turned in position  
for lighting. No more lan-  
terns required on Engines.



View showing **Manner of**  
**Mounting Reflector, and New**  
**(Oil Reservoir.**

This reservoir can be readily taken  
out to be refilled. Send for Circular of

**REVOLVING AND STATIONARY LIGHTS.**

**POST & CO.**

*Patentees and Manufacturers,*

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**EXAMINE OUR NEW SIGNAL HEAD-LIGHTS AT THE EXPOSITION.**

**See Exhibit No. 4, Avenue C, Railway Exposition.**

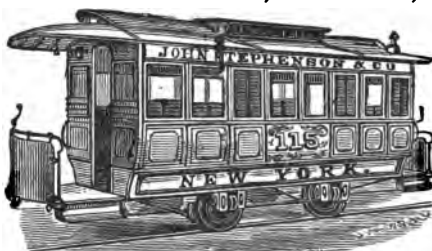
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MEDAL OF PROGRESS, VIENNA, 1873.

Cars for

Two

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Light

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Elegant

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MANUFACTURE

**STREET CARS AND OMNIBUSES**

Particular

Attention

to

Ship-  
ments.

Orders

Promptly

Filled.

OF EVERY VARIETY AND OF MOST PERFECT CHARACTER.

Cars for

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Horse.



With or

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Platforms

A. B. Meeker & Co.

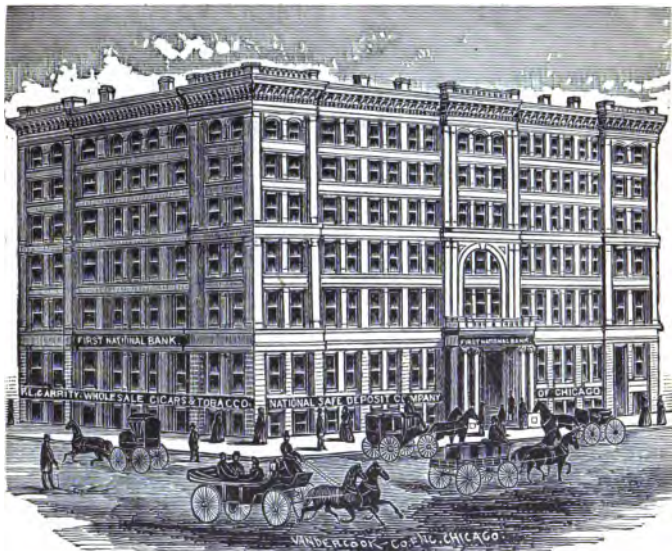
MANUFACTURERS, IMPORTERS AND  
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PIG IRON

93, 95 and 97

DEARBORN ST.,

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The Vaults of this Company are situated in the First National Bank Building, cor. Dearborn and Monroe Streets, and are entirely Fire Proof; and for *Strength and Protection* are *Unequaled* anywhere.

GUIDE  
TO THE  
NATIONAL EXPOSITION  
OF  
RAILWAY APPLIANCES  
CHICAGO

Thursday, May 24, to Saturday, June 23, 1883.

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WITH DIAGRAM SHOWING THE NAMES AND LOCATIONS OF EXHIBITORS.

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ALSO AN  
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CITY OF CHICAGO.

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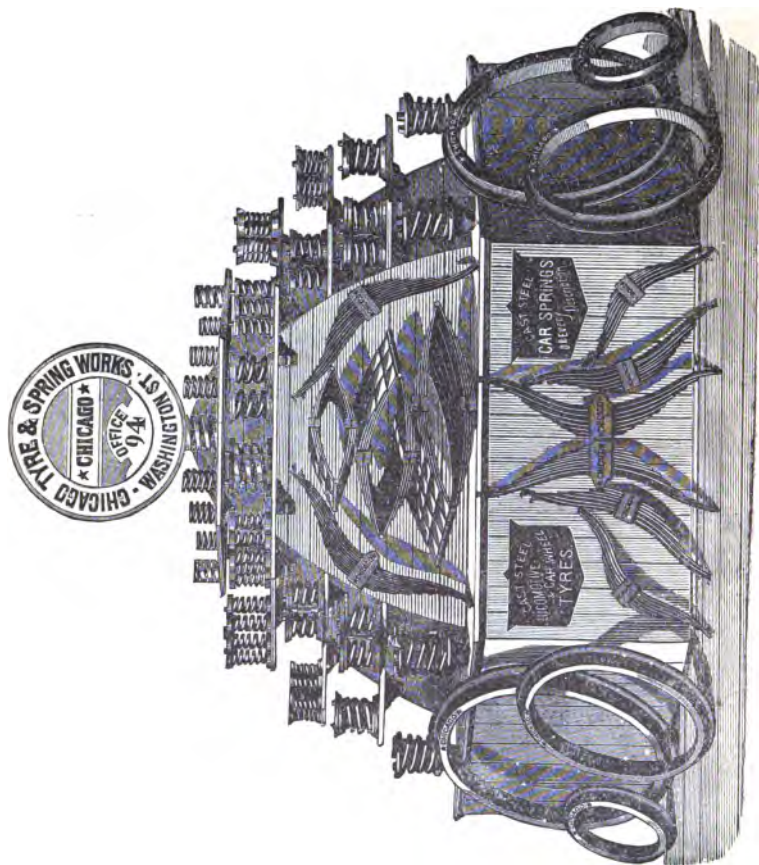




# Chicago Tyre & Spring Works

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C. H. FERRY, TREAS.



**Office, 94 Washington Street, CHICAGO.**

**WORKS, MELROSE, ILLINOIS.**

**Manufacturers of Cast Steel Locomotive and Car  
Wheel Tyres of any Specification, and Cast  
Steel Car Springs of every Description.**

**WE MAINTAIN THE SUPREMACY OF CHICAGO IN OUR LINE OF MANUFACTURE.**

Transf.  
U of Western Ont  
4-8-30

# National Exposition of Railway Appliances.

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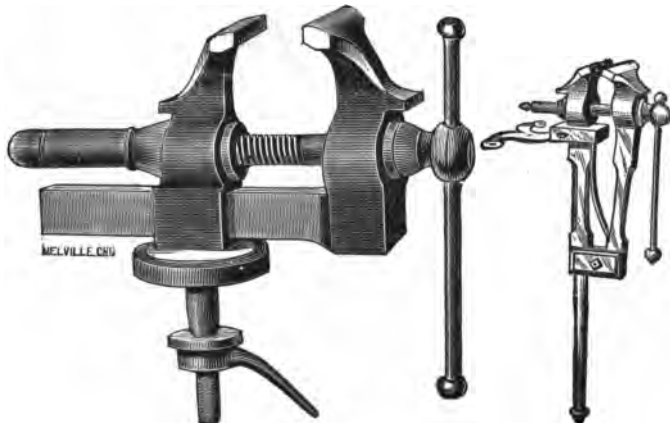
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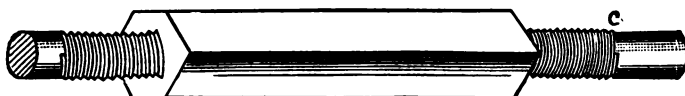
## Steam Forge Works and General Blacksmiths

132, 134 West Lake St. and 8, 10, 12 Lydia St., CHICAGO.

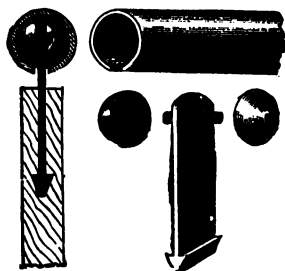


Wrought Iron Parallel Vises.

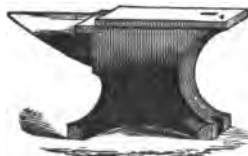
Solid Box Vises.



Moore & Smith's Patent Turnbuckle and Truss Rods.



**WE MAKE A SPECIALTY**  
—OF—

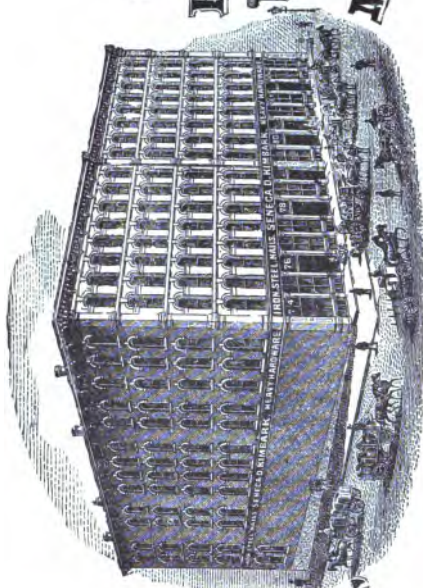


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**McQuatter's Patent Railroad Car Door Hangers.**

Can't get off track; easily hung; no more trouble with car doors, winter or summer. Track always dry.

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AND  
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**CHICAGO**

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**Steam Heating Engineers**

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**STEAM APPARATUS FOR DEPOTS, SHOPS AND ROUND HOUSES.**

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**EASY RUNNING! SILENT! PERFECT STITCH!**

MANUFACTURED BY THE

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**A. G. DARWIN.**

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**THE****CHICAGO RAWHIDE MFG. CO.**

MANUFACTURERS OF

**Rawhide Belting****Lace Leather and Rope Lariats,****AND OTHER RAWHIDE GOODS OF ALL KINDS,****By Krueger's Patent.****Nos. 75 & 77 OHIO STREET,****CHICAGO, ILL.****PLEASE MENTION THIS BOOK.**

## **RULES AND REGULATIONS**

OF THE

### **National Exposition of Railway Appliances.**

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The following Rules for the government of the Exposition will be strictly enforced:

#### **RULE I.**

The building will be open for the reception of articles from and after Wednesday, May 1, 1883. The Exposition will be opened on Thursday, May 24, and will continue open from day to day thereafter (Sundays excepted), from nine o'clock A. M. to ten o'clock P. M., until Saturday evening, June 23, inclusive.

#### **RULE II.**

**SECTION 1.** Articles may be entered either in "competition" for medals, or for "exhibition only," at the option of the exhibitor. The Premium List is not intended to exclude proper articles not named therein, but such will be received for exhibition and assigned space, and, if entered for medals, will be assigned to proper "classes," and examined by the jurors with a view to the same recognition by the Board as if named in the list.

**SEC. 2.** Exhibits intended for competition must be entered, labeled and in proper position, on or before the opening day. Failure on the part of an exhibitor to comply with this rule will forfeit his right to compete or exhibit unless good reason



# THE VAN DEPOELE ELECTRIC LIGHT APPARATUS

MANUFACTURED AT

203 & 205 VAN BUREN STREET,  
CHICAGO, ILLINOIS,

Is very Superior, Pure, Brilliant, Good to Match Colors by, and is a nearer approach to *Sunlight* than any made.

The Greek word for electricity is *ηλεκτρον*, and means sunlight.

This light is the nearest approach to it, *hence is the best.*

**CHEAPER THAN GAS**

WHERE THE SAME QUANTITY OF LIGHT IS REQUIRED.

**IN PERMANENT AND PROFITABLE USE**

In many Cities, in Manufactories, the largest Business Houses and Hotels in the city of Chicago and elsewhere.

**We refer to any and all who use our Light.**

For Lighting Stores, Manufactories, Mills, Docks, Depots, Iron and Steel Works, Boats, and for large areas, inside and outside, this light is not surpassed.

Estimates gladly furnished for Lighting Cities or Business Places.

**BOARD OF DIRECTORS.**

A. K. STILES.	LOUIS WAHL.
W. H. TURNER.	FRANK DOUGLAS.
CALLEN CLAPP.	E. H. CARMACK.
ALBERT WAHL.	C. J. VAN DEPOELE.
J. W. CALKINS.	THEO. P. BAILEY.
NORMAN T. GASSETTE.	

Office, 203 & 205 Van Buren St., Chicago.

NORMAN T. GASSETTE, Pres't.

AARON K. STILES, Vice Pres't

THEO. P. BAILEY, Sec'y.



for such delay is shown. The importance of strict compliance with this section is urged upon all exhibitors.

SEC. 3. It being impracticable to notify exhibitors of the date of jury examinations in order that they may be present and explain their exhibits, they will be required to file with the Secretary, prior to June 5, a brief written or printed statement of the points of superior excellence claimed for the exhibit. These statements will be submitted to the juries, and are intended to aid them in making careful and thorough examination of the articles exhibited.

SEC. 4. Articles for competition must be entered in the name of the manufacturer, owner or inventor, either directly or through an authorized agent.

SEC. 5. Machinery at rest will not be considered as in competition with machinery of the same class in motion.

### RULE III.

An entrance fee of \$5 will be charged for each article or display competing for a premium or entered for exhibition only. No charge will be made for steam power.

The charge for space occupied by exhibitors is graded according to the amount, as follows:

All exhibits occupying less than 10 square feet will be charged a space fee of \$2.

From 10 to 100 square feet,	- - - - -	per foot, 20c.
From 100 to 200 square feet,	- - - - -	" 19c.
From 200 to 300 square feet,	- - - - -	" 18c.
From 300 to 400 square feet,	- - - - -	" 17c.
From 400 to 500 square feet,	- - - - -	" 16c.
From 500 to 600 square feet,	- - - - -	" 15c.
From 600 to 700 square feet,	- - - - -	" 14c.
From 700 to 800 square feet,	- - - - -	" 13c.
From 800 to 900 square feet,	- - - - -	" 12c.
From 900 to 1,000 square feet,	- - - - -	" 11c.

# GALUMET IRON AND STEEL CO.

MANUFACTURERS OF

**OPEN-HEARTH STEEL, PIG METAL,  
Merchant Iron and Nails**

—ALSO—

**SIEMENS'  
OPEN-HEARTH STEEL CASTINGS,**

**Practically Free from Blow Holes.**

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We wish to call special attention to our Steel Casting Department. We are prepared to fill orders for

**WHEELS, PINIONS, CRANK SHAFTS,  
Dies, Hammer Heads,**

**Railroad Frogs, Points, Railroad Crossings,  
Engine Cross-Heads,**

And MACHINERY CASTINGS of all kinds, where great tensile strength is required.

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**Our Castings are Soft, and Easily Worked, and We Guarantee  
Satisfaction in every respect.**

---

## OFFICES:

**FIRST NATIONAL BANK BUILDING, Cor. Dearborn and Monroe Sts.**

## WORKS:

**AT CUMMINGS, COOK CO., ILL.**

---

From 1,000 to 1,100 square feet, - - -	per foot, 10c.
From 1,100 to 1,200 square feet, - - -	" 9c.
From 1,200 to 1,300 square feet, - - -	" 8c.
From 1,300 to 1,400 square feet, - - -	" 7c.
From 1,400 to 1,500 square feet, - - -	" 6c.
1,500 or more square feet, - - -	" 5c

#### RULE IV.

All applications for space must be made on printed forms, which will be furnished by the Secretary. Space will be awarded as early as practicable (after the application has been received), consistent with the plans for the classification and proper arrangement of exhibits, and notice of such awards of space will be mailed to applicants at the earliest possible moment. Space allotted and not taken possession of by the arrival of goods or otherwise, to the satisfaction of the Executive Committee, on or before May 20, may be assigned to other exhibitors. Patent medicines, nostrums, and all articles of an offensive character, or not properly coming under the head of Railway Appliances, will be excluded from the Exposition. Space assigned and not fully or properly occupied may be otherwise assigned by the Executive Committee.

#### RULE V.

Exhibitors will be furnished original and duplicate cards or tags describing each article and indicating whether it is entered for exhibition only, or for competition also. The duplicate card will be conspicuously attached to the article which it describes, and the original must be retained by the exhibitor, and be presented as his order for the delivery of the article specified, at the close of the Exposition.

#### RULE VI.

SECTION 1. Committees of awards, or juries, for the several classes, will be announced to exhibitors in due time, the desire



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**NATIONAL SCIENTIFIC ASSOCIATION.***Patent Soliciting and Patent Litigation.*

MAIN OFFICE,  
182 and 184 Dearborn Street,  
Rooms 19 and 20,  
Chicago, Ill.

BRANCH OFFICE,  
Le Droit Building, Room 31,  
Washington,  
D. C.

LITTLE BOOK ON PATENTS FREE.

---

| ESTABLISHED 1839. |

**JAMES S. KIRK & CO.**

MAKERS OF

**Toilet and Laundry Soaps**

ESPECIALLY ADAPTED

—) FOR (—

**RAILROAD USE.**

---

**Chicago Shafting and Pulley Works,**

**116 to 124 Clinton Street,**

**CHICAGO.**

Send for Illustrated Catalogue and Price List just issued.

of the Commissioners being to organize them with great care, from persons entirely disinterested, and yet qualified by education and experience to serve intelligently and satisfactorily. Exhibitors or their representatives in attendance will be notified of the date of examination of their exhibits in advance of such examination.

SEC. 2. The jury for each class will consist of three persons, and awards will be based upon examinations and tests made in the most thorough possible manner.

SEC. 3. Juries will award medals only to the most meritorious exhibits in each class, and where but one exhibit is entered in any class, no award will be made, unless, in the unanimous opinion of the jury, approved by the Commissioners, it is worthy of award, notwithstanding the absence of competing exhibits, and they may refuse to award a prize in any case where the article falls below a proper and reasonable standard of excellence.

SEC. 4. Juries will confine their official examinations to exhibits in position at the Exposition Building and entered for prizes. No examinations will be made elsewhere without written authority from the Executive Committee, which shall be attached to and filed with their report. When juries have reached a decision, the same shall be at once reduced to writing and filed with the Secretary. Upon the approval of jury reports by the Board, premium badges will be issued to the successful exhibitor, and conspicuously attached to the articles on which awards are made.

SEC. 5. Should any juror, either before entering upon an examination, or while it is in progress, die, or become from any cause incapacitated from serving, the Executive Committee shall select another.

SEC. 6. There will be no appeal from the decision of the juries, except in cases where the award is claimed to have been made in violation of the printed rules, and the Commissioners reserve the right to vacate the decision of a jury when so made.



**The REIHER**  
**Self-Locking Transom Lifter!!**  
 AND  
**RAILROAD CAR VENTILATOR.**

**BEST IN THE MARKET.**

Used by the New First National Bank Building, Union and Northwestern Depots, Pullman Works, Lindell and Laclede Hotels, St. Louis, and in fact all over the country. Recommended by all prominent Architects, Builders, etc. For sale all over the United States and by the manufacturers.

**The REIHER**  
**Self-Locking Skylight and Transom Lifter**

Can be easily attached to Railway Cars. Is a complete device as shown in cut.

With the handle A, the device may be operated by different means, by the handle itself or with a cord or a pole, or a stationary rod can be connected when out of reach of the hand.

WILL WORK

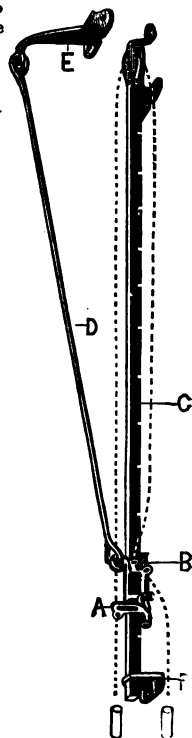
**ANY SASH,**

No matter how the same may be hinged.

**F. A. REIHER & CO.**

—) 177 (—

**W. RANDOLPH ST.,**  
**CHICAGO, ILL.**



SEC. 7. Expert tests will be made where a majority of the exhibitors in a class, exhibiting articles intended for a like purpose, make the request—such request to be filed with the Secretary on or before April 1—the expense of expert tests to be borne by the competitors requesting them.

#### RULE VII.

The driving engines will be in operation one week previous to the opening of the Exposition, and exhibitors of machinery in motion will be required to have it in running order on the day of opening.

#### RULE VIII.

No article on exhibition can be removed from any department during the Exposition.

#### RULE IX.

A police force will be in attendance upon the premises, day and night, but all articles on exhibition will be at the risk of the owner.

Insurance against loss by fire will be effected by the Executive Committee in behalf of all exhibitors who apply and pay for same.

#### RULE X.

In order to preserve the general harmony of the Exposition, and to make the display as attractive as possible, the Commissioners reserve the right to direct the general arrangement of all articles on exhibition, and to regulate the dimensions of all signs and advertisements.

#### RULE XI.

SECTION 1. Each exhibitor may procure for such employés as may be necessary for the care of his exhibit, season coupon tickets at \$5 each, said tickets to be registered and numbered at the Secretary's office.



GEORGE WESTINGHOUSE, JR.,	President.
H. H. WESTINGHOUSE,	Vice-President.
RALPH BAGGLEY,	Secretary and Treasurer.
WM. LEE CHURCH,	General Agent.
HARRIS TABOR,	Superintendent.
C. SEYMOUR DUTTON,	Western Agent.

## The Westinghouse Engine

**AUTOMATIC ENGINES, 25 TO 200 HORSE POWER.**

**THROTTLING ENGINES, 4 TO 100 HORSE POWER.**

Send for Illustrated Circular. Also, see Exhibit at  
National Railway Exposition.

## The Westinghouse Machine Co.

14 SOUTH CANAL STREET,

**CHICAGO.**

General Office and Works: **PITTSBURGH, PA.**

---

SEC. 2. Every ticket of general admission will be registered, and taken up and forfeited if presented by any other person than the one to whom it is issued.

RULE XII.

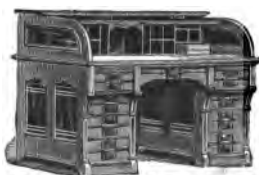
SECTION 1. All articles upon which the freight has been prepaid, will be taken in charge by the Executive Committee and deposited in the Exposition Building at the expense of the exhibitor, when so desired.

SEC. 2. All articles exhibited must be removed from the building within seven days after the close of the Exposition, and the Executive Committee will store such as may not be removed within this time at the exhibitor's expense, the building being required for other purposes after July 1.

**GURNEY & PHALEN,**  
247 AND 249 LAKE STREET,  
CHICAGO.  
**Railway Supplies.**

— AGENTS FOR —

**Atha Tool Co.'s Track Tools.**  
BENJAMIN ATHA & CO.'S  
**STEEL.**



**A. H. Andrews & Co.**

195 WABASH AVE., CHICAGO,

Make as a specialty, and acknowledge no Superior  
in their

**Railroad Desks,**  
BANK AND OFFICE



**FURNITURE,**

Chairs, Tables, Settees, Etc.

**ANDREWS' PARLOR FOLDING BEDS**

30 Styles. \$25 up. Elegant and Cheap.

*Bedding folds out of sight. Portable, Compact and Strong.*



**School Desks**  
And Apparatus.

The celebrated Triumph Desks, both  
Stationary Top and  
Folding Lid. Globes,  
Blackboards, Maps,  
Erasers, Liquid Slat-  
ing, Crayons, etc.

A. H. Andrews & Co., 195 Wabash Ave., CHICAGO.



**NEW BOOK REST.**  
And Dictionary Holder.  
In height and angle  
adjustable.

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**PREMIUM LIST.**

---

**DEPARTMENT A—ROLLING STOCK.**

---

**Class No. 1—Locomotives.**

Best Display of Locomotives.....	Grand Gold Medal
Best Standard Gauge Passenger.....	Gold Medal
Best Narrow Gauge Passenger.....	Gold Medal
Best Standard Gauge Freight.....	Gold Medal
Best Narrow Gauge Freight.....	Gold Medal
Best Switching.....	Gold Medal
Best Logging and Mining.....	Gold Medal
Best Locomotive Involving Important New Principles.....	Gold Medal
Best Locomotive Balance.....	Bronze Medal
Best Locomotive Clock.....	Bronze Medal
Best Steam Gauge Cock.....	Bronze Medal
Best Stop Cock.....	Bronze Medal
Best Engineer's Torch.....	Bronze Medal
Best Locomotive Gong.....	Bronze Medal
Best Locomotive Headlight (to Burn Oil).....	Gold Medal
Best Locomotive Headlight (Electric).....	Gold Medal
Best Steam Gauge.....	Silver Medal
Best Water Gauge.....	Bronze Medal
Best Gauge Test Pump.....	Bronze Medal
Best Grate Bar.....	Silver Medal
Best Engineer's Hammer.....	Bronze Medal
Best Injector.....	Silver Medal
Best Locomotive Pump.....	Silver Medal
Best Locomotive Stack.....	Silver Medal
Best Locomotive Jack.....	Silver Medal



ALBERT SOPER.

JAMES SOPER.

JAMES P. SOPER.

Established in 1859.

**Soper Brothers & Co.**

L	U	M	B	E	R
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No. 775 Canal, Cor. Lumber St.

Office and Yards, 381 Lumber Street, Cor. Canal,

CHICAGO.

*Car Siding and Roofing a Specialty.*

.....THE.....

**LOCOMOTIVE CYLINDER OIL CO.**

MANUFACTURERS OF

***Railroad Valve Oil.***

———SOLE AGENTS———

**D. A. STUART & CO.****8 STATE STREET,****CHICAGO.**

SAMPLES, ETC., CHEERFULLY FURNISHED ON APPLICATION.

---

**Department A — Class No. 1 — Continued.**

Best Locomotive Bell.....	Silver Medal
Best Oil Cup.....	Bronze Medal
Best Locomotive Oiler.....	Bronze Medal
Best Oiler Set.....	Silver Medal
Best Headlight Reflector.....	Silver Medal
Best Coal Scoop.....	Bronze Medal
Best Water Gauge Glass.....	Bronze Medal
Best Wire Cloth.....	Bronze Medal
Best Cab Lamp.....	Bronze Medal
Best Locomotive Safety Valve.....	Silver Medal
Best Steam Muffler.....	Silver Medal
Best Boiler Feeder.....	Silver Medal
Best Spark Arrester.....	Gold Medal
Best Smoke Consumer.....	Gold Medal
Best Device to Prevent Slipping of Wheels.....	Silver Medal
Best Steam Whistle.....	Silver Medal
Best Locomotive Steel Tire.....	Gold Medal

# **GRIFFIN CAR WHEEL COMPANY.**

Railroad Car Wheels and Castings. Annual Capacity, 100,000 Wheels. 10,000 Tons Castings.



Rates secured and Shipments made to all parts of the United States. Special attention given to Car and Engine Wheels for Railroad use. Mileage Guaranteed. Contracts made for yearly or other supply. Correspondence solicited.

OFFICE AND WORKS:

Cor. Foundry St. and Michigan Central R. R., } **DETROIT, MICH.**

**THOS. F. GRIFFIN & SONS,**  
**Manufacturers of Car Wheels and Castings,**  
**BUFFALO, N. Y.**

## **GRIFFIN & WELLS FOUNDRY COMPANY**

Railroad Car, Engine and Street Car Wheels.

ANNUAL CAPACITY,

50,000 WHEELS.



Rates secured and Shipments made to all parts of the West and South. Contracts made for yearly or other supply. Mileage or Time Guarantee given. All Orders and Correspondence will receive prompt attention. References furnished.

OFFICE AND WORKS:

Paulina St., South of Blue Island Avenue, }

**CHICAGO.**

**Department A—Class No. 2—Cars.**

Best Display of Cars.....	Grand Gold Medal
Best Private or Officer's.....	Gold Medal
Best Hotel.....	Gold Medal
Best Dining.....	Gold Medal
Best Sleeping.....	Gold Medal
Best Drawing Room.....	Gold Medal
Best Day.....	Gold Medal
Best Mail.....	Gold Medal
Best Baggage.....	Silver Medal
Best Refrigerator.....	Gold Medal
Best Stock.....	Gold Medal
Best Box.....	Silver Medal
Best Flat or Gondola.....	Silver Medal
Best Coal, Ore or Gravel Dump.....	Silver Medal
Best Wrecking.....	Silver Medal
Best Road or Section Master's.....	Silver Medal
Best Hand.....	Silver Medal
Best Velocipede.....	Silver Medal
Best Steam Inspection.....	Silver Medal
Best Combination Stock and Freight.....	Gold Medal
Best Tank Car.....	Silver Medal

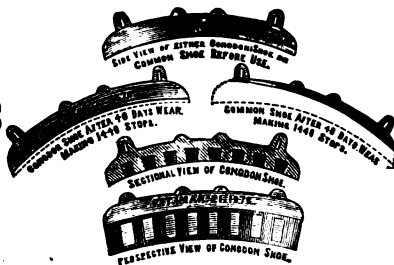
# Congdon's Improved Car Brake Shoe.

Used by nearly

**100 Railroads**

IN THE

**UNITED STATES.**



Saves in Wear  
**Over 75 Per Cent.**  
as compared with  
the Ordinary Cast  
Iron Shoe.

In ordering  
**SHOES,**  
or for any Infor-  
mation, address

## THE CONGDON BRAKE SHOE COMPANY,

GEO. M. SARGENT, Manager,

142 DEARBORN ST., CHICAGO.

**Ramapo Wheel & Foundry Co.**  
RAMAPO, NEW YORK.

**Geo. McDougall,**  
THREE RIVERS, P. Q., CANADA.

# SALISBURY & CLINE,

109 Madison Street, CHICAGO.



WESTERN AGENTS FOR

**BOSTON BELTING CO.**

Goods manufactured by this Com-  
pany are specially adapted for

**RAILROAD USE.**

They make but one quality, and that  
superior to all others.

**SALISBURY & CLINE**

carry a full stock of all kinds of

**RUBBER GOODS,**

Leather Belting,

**Railroad & Mill Supplies.**

**Department A—Class No. 3—Running Gear.**

Best Steel Axle (Master Car Builders' Standard).....	Silver Medal
Best Iron Axle (Master Car Builders' Standard).....	Silver Medal
Best Hollow Axle.....	Silver Medal
Best Passenger Train Brake.....	Gold Medal
Best Freight Train Brake.....	Gold Medal
Best Brake Shoe.....	Silver Medal
Best Springs (Elliptic).....	Gold Medal
Best Springs (Spiral).....	Silver Medal
Best Springs (Bearing).....	Silver Medal
Best Springs (Buffer or Draw).....	Bronze Medal
Best Springs (Rubber).....	Silver Medal
Best Equalizing Spring.....	Silver Medal
Best Draw Bar for Freight Car.....	Silver Medal
Best Journal Box.....	Silver Medal
Best Journal Box Lid.....	Silver Medal
Best Journal Bearing.....	Silver Medal
Best Steel Tire for Car Wheels.....	Gold Medal
Best Steel Tire Metal Wheel.....	Gold Medal
Best Cast Iron Wheel.....	Gold Medal
Best Steel Tire Combination Wheel.....	Gold Medal
Best Car Step.....	Bronze Medal
Best Passenger Car Platform, Coupler and Buffer.....	Gold Medal
Best Passenger Car Six Wheel Truck.....	Gold Medal
Best Passenger Car Four Wheel Truck.....	Gold Medal
Best Freight Car Truck.....	Gold Medal
Best Automatic Freight Car Coupler.....	Silver Medal
Best Freight Car Coupler (Non-Automatic).....	Silver Medal



## THE BAKER HEATER

UNIVERSALLY ACKNOWLEDGED TO BE

### THE BEST APPARATUS FOR WARMING RAILROAD CARS

Warms the floor of Car, and feet of each Passenger. Permits Ventilation. Temperature can be easily regulated. Does not fire always ready for use. Uses less fuel than any other heater. In use in hundreds of cars, and nearly all the drawing-room, dining, sleeping and baggage cars in the country.

**BAKER, SMITH & CO.,**

149 & 151 Greene St., New York

81 & 83 Jackson St., Chicago, Ill.

(44)

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**Department A — Class No. 4 — Interior Furnishings for Passenger Cars.**

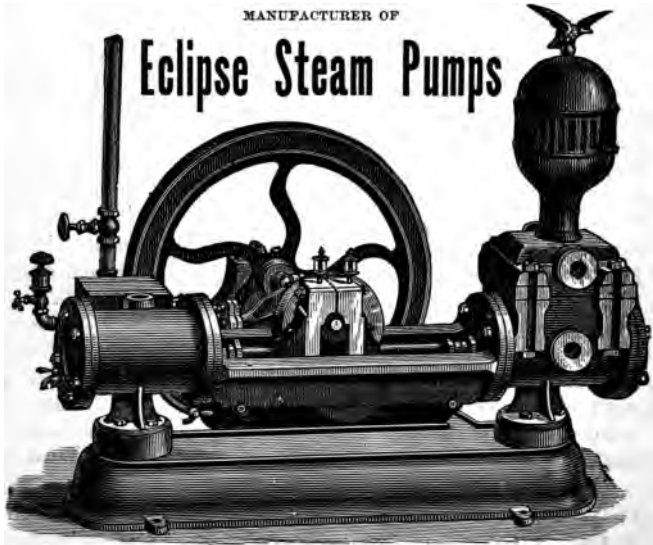
Best Display .....	Gold Medal
Best Bell Cord Fixtures, complete .....	Silver Medal
Best Bell Cord .....	Bronze Medal
Best Car Door Butts .....	Bronze Medal
Best Car Door Latch (Saloon) .....	Bronze Medal
Best Car Door Lock .....	Bronze Medal
Best Seat End .....	Silver Medal
Best Seat End Lock .....	Bronze Medal
Best Seat End Fixtures .....	Bronze Medal
Best Curtain Goods .....	Silver Medal
Best Curtain Roller .....	Bronze Medal
Best Curtain Rod Fixtures .....	Bronze Medal
Best Deck Light Catch .....	Bronze Medal
Best Display of Car Lamps .....	Gold Medal
Best Center Lamp (one burner) .....	Silver Medal
Best Center Lamp (two burners) .....	Silver Medal
Best Center Lamp (three burners) .....	Silver Medal
Best Center Lamp (four burners) .....	Silver Medal
Best Electric Light for Cars .....	Gold Medal
Best Postal Car Lamp .....	Silver Medal
Best Side Lamp .....	Silver Medal
Best Door, Window and Deck Glass (illuminated) .....	Silver Medal
Best Heater .....	Gold Medal
Best Stove .....	Silver Medal
Best Head Lining (Cloth) .....	Silver Medal
Best Head Lining (Wood) .....	Silver Medal
Best Hopper .....	Silver Medal
Best Urinal .....	Silver Medal
Best Window Lift .....	Bronze Medal
Best Sash Lock .....	Bronze Medal
Best Deck Light Opener .....	Bronze Medal
Best Decorating Material .....	Silver Medal
Best Sash .....	Bronze Medal
Best Window Blind .....	Bronze Medal
Best Window Blind Lift .....	Bronze Medal



**M. SCHULTZ,**  
170 Plum Street, Cincinnati, Ohio,

MANUFACTURER OF

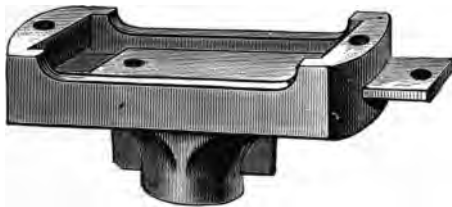
## Eclipse Steam Pumps



## STEEL-FACED YOKE

ON ALL MY

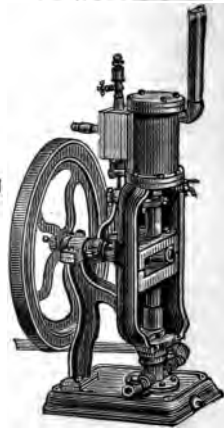
## PUMPS.



The above cut shows the steel-facing plate in my  
yokes. Patented December 28, 1880.

**SEND FOR CATALOGUE.**

(46)



Boiler Feeder.

---

**Department A — Class No. 4 — Continued.**

Best Sash Spring.....	Bronze Medal
Best Sash Stop.....	Bronze Medal
Best Seat Frame.....	Silver Medal
Best Upholstering.....	Silver Medal
Best System of Ventilation.....	Gold Medal
Best Dust Guard.....	Bronze Medal
Best Display Fancy Woods and Veneers.....	Gold Medal
Best Water Cooler.....	Bronze Medal
Best Berth and Seat Springs.....	Silver Medal
Best Berth Curtain Hook and Fixtures.....	Bronze Medal
Best Wash room Pump.....	Silver Medal
Best Cooking Range.....	Silver Medal
Best Reclining Chair.....	Silver Medal
Best Revolving Chair.....	Silver Medal
Best Washstand for Parlor or Sleeping Car, complete.....	Silver Medal
Best Basket Rack .....	Silver Medal
Best Door Holder.....	Bronze Medal
Best Door Knob.....	Bronze Medal
Best Coat Hook.....	Bronze Medal
Best Hat Hook.....	Bronze Medal
Best Cuspidore or Spittoon.....	Bronze Medal
Best Headboard and Fixtures (for Sleeping Car).....	Bronze Medal
Best Folding Bed for Car, complete.....	Silver Medal
Best Curtain Rod Bracket.....	Bronze Medal
Best Double Acting Hinge.....	Bronze Medal
Best Electric or Other Call Bell.....	Bronze Medal



**STEEL HEAVY HARDWARE &c** SEND FOR  
 186 WEST SECOND ST. CINCINNATI, OHIO. CIRCULARS.

## **STEWART & LAWSON**

MANUFACTURERS' AGENTS

**Railroad Supplies,**  
**Contractors' Supplies,**  
**Machinists' Supplies,**  
**Steel and Heavy Hardware,**  
**186 West Second Street, - Cincinnati, O.**

## **The New York Iron Roofing Paint Co.**

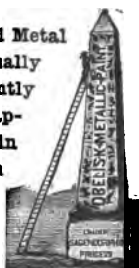
Self-Capped and Packed  
**SHEET IRON ROOFING**  
**AND SIDING.**



Laid by means of Cleat.  
 No nails or rivet holes  
 in the Sheet.

**OBELISK METALLIC PAINT**  
**And Cement.**

Leaks in all Metal  
 Roofs Effectually  
 and Permanently  
 stopped by ap-  
 plying same in  
 connection  
 with our me-  
 chanical de-  
 vice.



**STONE-FACED**  
**CANVAS ROOFING.**

**No Nails Exposed.**



Superior to tin, slate,  
 shingles, tar, felt or com-  
 position roofing.

**137, 139 & 141 East Pearl Street, CINCINNATI, O.**

**SEND FOR CIRCULAR No. 12 AND SAMPLES.**

**Department A — Class No. 5 — Freight Car Appliances.**

Best Car Seal .....	Bronze Medal
Best Car Replacer .....	Silver Medal
Best Car Pusher .....	Bronze Medal
Best Grain Car Door .....	Silver Medal
Best Freight Car Door .....	Silver Medal
Best End Door Inside Fastener .....	Bronze Medal
Best Freight Car Lock .....	Bronze Medal
Best Door Hanger .....	Bronze Medal
Best Metal Roofing .....	Silver Medal
Best Wood Roofing .....	Silver Medal
Best Combination Roofing .....	Silver Medal

# GEO. B. CARPENTER & CO.,

202 TO 208 SOUTH WATER STREET,

CHICAGO,

Always have the Largest Stock in the West.

CORDAGE,

— OF —

DUCK,

PURCHASE BLOCKS,



WIRE ROPE,

SWITCH ROPES,

BUNTING,

BELL CORDS,

PACKING.

EVERY VARIETY OF

CORDAGE, TWINES AND CANVAS.

---

**DEPARTMENT B—MACHINERY.**

---

**Class No. 1—Wood Working.**

<b>Best Display of Wood Working Machinery (not less than six machines).....</b>	<b>Grand Gold Medal</b>
<b>Best Timber Dressing Machine with capacity of reducing sixteen inches wide and fourteen inches thick, on all four sides at one cut.....</b>	<b>Gold Medal</b>
<b>Best Planing and Matching Machine, to plane twenty-four inches wide and under, and not match less than twelve inches.....</b>	<b>Gold Medal</b>
<b>Best Flooring and Beading Machines.....</b>	<b>Gold Medal</b>
<b>Best Dimension Planing Machine, with Carriage and Roll Feed for Dressing out of Wind and Surfacing.....</b>	<b>Silver Medal</b>
<b>Best Daniels or Traverse Planing Machine.....</b>	<b>Silver Medal</b>
<b>Best Double Surfacing Machine to dress on one or both sides, twenty-six inches wide and eight inches thick, and under.....</b>	<b>Gold Medal</b>
<b>Best Surfacing Machine for Smoothing Purposes.....</b>	<b>Gold Medal</b>
<b>Best Band Saw Machine for General Work.....</b>	<b>Silver Medal</b>
<b>Best Band Saw for Re-sawing, to re-saw twenty-four inches wide and under.....</b>	<b>Silver Medal</b>
<b>Best Cutting-off Saw Machine, with Traversing Arbor for Timbers.....</b>	<b>Silver Medal</b>
<b>Best Bracket Cutting-off Saw Machine, with Traversing Arbor for Timbers.....</b>	<b>Silver Medal</b>
<b>Best Railway Cutting-off Saw Machine, with Traversing Arbor for Timbers.....</b>	<b>Silver Medal</b>
<b>Best Carriage Cutting-off Saw Machine.....</b>	<b>Silver Medal</b>
<b>Best Cutting-off Saw for Cabinet Work.....</b>	<b>Silver Medal</b>
<b>Best Ripping Saw with Elevating Arbor.....</b>	<b>Silver Medal</b>

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**Plate Car & Window Glass**

**Genuine French & German Mirror Plates,**

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**Department B—Class No 1—Continued.**

Best Rippling Saw with Stationary Arbor .....	Silver Medal
Best Edging Saw Machine.....	Silver Medal
Best Reciprocating Saw for Scroll Work.....	Silver Medal
Best Rotary Car Mortising and Recessing Machine.....	Silver Medal
Best Reciprocating Mortising and Boring Machine.....	Silver Medal
Best Cabinet Mortising and Boring Machine.....	Silver Medal
Best Reciprocating Blind Mortising and Boring Machine.....	Silver Medal
Best One Spindle Horizontal Boring Machine.....	Silver Medal
Best Two Spindle Horizontal Boring Machine .....	Silver Medal
Best Three Spindle Horizontal Boring Machine.....	Silver Medal
Best Radial Horizontal Boring Machine .....	Silver Medal
Best One Spindle Vertical Boring Machine.....	Silver Medal
Best Two Spindle Vertical Boring Machine.....	Silver Medal
Best Three Spindle Vertical Boring Machine.....	Silver Medal
Best Automatic Car Gaining Machine.....	Silver Medal
Best Vertical Car Tenoning Machine.....	Silver Medal
Best Universal Tenoning Machine with Movable Carriage for Timber Work.....	Silver Medal
Best Tenoning Machine with Copes for Cabinet and Gen- eral Work.....	Silver Medal
Best Universal Sill Cutting-off and Boring Machine.....	Silver Medal
Best Vertical Spindle Shaping and Edge Molding Machine....	Silver Medal
Best Single Spindle Edge Molding and Carving Machine.....	Silver Medal
Best Universal Wood Worker and Molder.....	Silver Medal
Best Straight Molding Machine to Work Four Sides.....	Silver Medal
Best Surface Polishing Machine.....	Silver Medal
Best Surface Scraping and Finishing Machine.....	Silver Medal
Best Automatic Knife Grinding Machine.....	Silver Medal
Best Wood Turning Machine for Pattern Makers' Use.....	Silver Medal



BROOKS

# LOCOMOTIVE WORKS

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PRESIDENT AND SUPERINTENDENT.

M. L. HINMAN,  
SECRETARY AND TREASURER.

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**LOCOMOTIVE ENGINES**

Adapted to every variety of Railway Service.



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Like parts of all Engines of same class, warranted interchangeable.

Our Exhibit will be found in the Annex South of  
Main Building.

**Department B—Class No. 2—Iron Working.**

Best Display of Iron Working Tools (Power) not less than six in number.....	Grand Gold Medal
Best Axle Turning Machinery.....	Silver Medal
Best Car Wheel Boring and Turning Machine.....	Gold Medal
Best Six Spindle Drilling Machine.....	Silver Medal
Best Hydraulic Wheel Press.....	Silver Medal
Best Wheel Grinding or Trueing Machine.....	Silver Medal
Best Iron Planing Machine.....	Silver Medal
Best Iron Crank Shaping Machine.....	Silver Medal
Best Screw Cutting Engine Lathe.....	Silver Medal
Best Upright Drilling Machine.....	Silver Medal
Best Radial Drilling Machine.....	Silver Medal
Best Milling Machine.....	Silver Medal
Best Bolt Heading Machine.....	Silver Medal
Best Bolt Forging Machine.....	Silver Medal
Best Bolt and Screw Cutting Machine.....	Silver Medal
Best Set Screw Machine.....	Silver Medal
Best Gear Cutting Machine.....	Silver Medal
Best Power Hammer.....	Silver Medal
Best Power Punch and Shears.....	Silver Medal
Best Planer Chuck.....	Silver Medal
Best Universal and Independent Chuck, over twelve inches in diameter.....	Silver Medal
Best Universal Lathe Chuck, twelve inches and under.....	Silver Medal
Best Assortment of Lathe Chucks.....	Silver Medal
Best Assortment of Planer Chucks.....	Silver Medal
Best Expanding Mandrel.....	Silver Medal
Best Flexible Mandrel for bending Pipe.....	Silver Medal
Best Adjustable Lathe Mandrel.....	Silver Medal
Best Differential Pulley Blocks.....	Silver Medal
Best Machine for testing quality of metals.....	Gold Medal
Best Machine for testing strength of metals.....	Gold Medal
Best Drop Press for stamping and forging.....	Silver Medal
Best Display of Emery Grinding Machinery.....	Silver Medal
Best Display of Machinists' Hand Tools.....	Silver Medal
Best Display of Machinists' Vises.....	Silver Medal
Best Display of Taps and Dies.....	Silver Medal
Best Nut Tapping Machine.....	Silver Medal

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## DEPARTMENT C—TRACK GOODS.

### Class No. 1.

Best Display of Steel and Iron Rails and Track Goods ..	Grand Gold Medal
Best Track Laying Device .....	Gold Medal
Best Steel Rail in Section and Finish, not less than 30 feet long, nor less than 50 pounds to yard .....	Gold Medal
Best Iron Rail in Section and Finish, not less than 30 feet long, nor less than 50 pounds to yard .....	Gold Medal
Best Rail Punch or Drill .....	Silver Medal
Best Rail Straightener .....	Silver Medal
Best Rail Tongs .....	Bronze Medal
Best Track Bolt .....	Bronze Medal
Best Track Bolt Washer .....	Bronze Medal
Best Railway Fencing .....	Silver Medal
Best Tamping Bar .....	Bronze Medal
Best Track Chair .....	Bronze Medal
Best Claw Bar .....	Bronze Medal
Best Cross Tie (Metal) .....	Silver Medal
Best Process for Preserving Wood Cross Ties and Timber .....	Gold Medal
Best Power Excavator .....	Gold Medal
Best Frog .....	Silver Medal
Best Crossing .....	Silver Medal
Best Fish or Angle Plate .....	Silver Medal
Best Track Jack .....	Bronze Medal
Best Jack Screw .....	Bronze Medal
Best Track Bolt and Nut .....	Bronze Medal
Best Track Level .....	Bronze Medal
Best Spike Maul .....	Bronze Medal
Best Nut Lock .....	Silver Medal
Best Scraper .....	Silver Medal

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**Department C—Class No. 1—Continued.**

Best Post Hole Augur .....	Bronze Medal
Best Track Gauge .....	Bronze Medal
Best Outfit for Track Gang.....	Silver Medal
Best Cold Saw Machine for cutting steel or iron bars cold....	Gold Medal
Best Shovel.....	Bronze Medal
Best Spade.....	Bronze Medal
Best Spikes (one keg) .... .	Bronze Medal
Best Switch (Upright, complete).....	Silver Medal
Best Switch (Ground, complete).....	Silver Medal
Best Switch Lock.....	Bronze Medal
Best Switch Stand.....	Bronze Medal
Best Track Broom .....	Bronze Medal
Best Barrow .....	Bronze Medal
Best Cart.....	Bronze Medal
Best Pinch Bar.....	Bronze Medal
Best Wrecking Frog.....	Silver Medal
Best Complete Track Joint .....	Silver Medal
Be System of Interlocking Yard Switches .....	Gold Medal

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New Sections made to order.**

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**DEPARTMENT D.**

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**Metals.**

Best Display of Sheet Brass.....	Silver Medal
Best Display of Sheet Copper.....	Silver Medal
Best Car Wheel Iron.....	Gold Medal
Best Galvanized Iron.....	Silver Medal
Best Planished Iron.....	Silver Medal
Best Flanging Iron.....	Silver Medal
Best Locomotive Jacket Iron.....	Silver Medal
Best Boiler Plate (Steel).....	Silver Medal
Best Boiler Plate (Iron).....	Silver Medal
Best Display Iron Ores.....	Gold Medal



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Many styles especially adapted to railway requirements.

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Send for Descriptive Catalogue specifying article needed.

**DEPARTMENT E.****Class No. 1 — Station and Office Appurtenances.**

Best Baggage Barrow .....	Bronze Medal
Best Baggage Truck .....	Bronze Medal
Best Baggage Check .....	Silver Medal
Best Station Clock .....	Silver Medal
Best Engraved Folder .....	Silver Medal
Best Set of Freight Department Blanks .....	Silver Medal
Best Set of Passenger Department Blanks .....	Silver Medal
Best Set of Machinery Department Blanks .....	Silver Medal
Best Display of General Office Printing .....	Silver Medal
Best Platform Scale .....	Silver Medal
Best Track Scale .....	Gold Medal
Best Display Telegraph Instruments and Supplies .....	Gold Medal
Best Key, Relay and Switch Complete .....	Silver Medal
Best Design for Suburban or Village Passenger Station, as to economy, cost and convenience .....	Silver Medal
Best Dating Stamp .....	Bronze Medal
Best Canceling Stamp .....	Bronze Medal
Best Depot Signal .....	Silver Medal
Best System of Passenger Tickets .....	Silver Medal
Best Station Annunciator .....	Silver Medal
Best Desk for Railway Offices .....	Silver Medal



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**Department H — Pumps and Water Station Appliances.**

<b>Best Steam Pump for Water Station.....</b>	<b>Gold Medal</b>
<b>Best Hand Pump for Water Station.....</b>	<b>Bronze Medal</b>
<b>Best Hydraulic Ram.....</b>	<b>Bronze Medal</b>
<b>Best Water Column or Stand Pipe.....</b>	<b>Silver Medal</b>
<b>Best Water Tank.....</b>	<b>Silver Medal</b>
<b>Best Water Tank Fixtures.....</b>	<b>Silver Medal</b>
<b>Best Wind-Mill for Water Stations....</b>	<b>Silver Medal</b>

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**White Lead, Zinc White, Colors and Materials for  
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Fillers, Priming, Rough Stuff, Dryers, Japans, etc.

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**DEPARTMENT G.****Oils, Varnish and Paints.**

Best Display of Passenger Car Body Colors, including Samples of Work.....	Gold Medal
Best Display of Freight Car Body Paints, including Samples of Work.....	Silver Medal
Best Display of Head Lining and Wood Filler, including Samples of Work .....	Silver Medal
Best Display of Railway Passenger Car Varnishes, including Samples of Work.....	Gold Medal
Best Lard Oil .....	Silver Medal
Best Lubricating Oil (Passenger Car).....	Silver Medal
Best Lubricating Oil (Freight Car).....	Silver Medal
Best Headlight Oil, 175° Fire Test.....	Silver Medal
Best Lamp Oil, 300° Fire Test .....	Silver Medal
Best Valve Oil.....	Silver Medal
Best Car Grease.....	Bronze Medal
Best Oil Testing Machine.....	Silver Medal
Best Oil Can.....	Bronze Medal
Best Oil Feeder.....	Bronze Medal
Best Oil Tank with Pump.....	Bronze Medal
Best Automatic Oiler .....	Bronze Medal
Best Packing.....	Silver Medal

## To Railroad Managers.

Your Wooden Buildings and Bridges



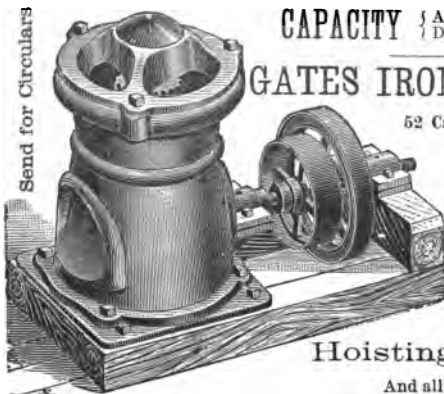
Of every description are constantly in danger from *sparks and cinders*. They are nearly all painted excepting the Roof, which should be covered as well. A paint that would protect your structures from **Fire** as well as from the weather, by covering *all* its parts, is certainly worthy of your **CAREFUL CONSIDERATION** and inquiry. We manufacture *just that kind of a PAINT*. It has been

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Hoisting Engines,

And all kinds of

**Mining Machinery and Supplies.**

**DEPARTMENT H.****Miscellaneous.**

Best System for Lighting Depots and Shops by Electricity.....	Gold Medal
Best Leather Belting.....	Silver Medal
Best Rubber Belting.....	Silver Medal
Best Fire Clay Brick.....	Bronze Medal
Best Iron Bridge (Working Model or otherwise).....	Gold Medal
Best Wooden Bridge (Working Model or otherwise).....	Gold Medal
Best Crane.....	Gold Medal
Best Coal Chute.....	Silver Medal
Best Conductor's Lantern.....	Silver Medal
Best Conductor's Ticket Punch.....	Silver Medal
Best Derrick.....	Silver Medal
Best Rock Drill (Power).....	Silver Medal
Best Car Gong.....	Bronze Medal
Best Hydraulic Jack.....	Silver Medal
Best Lever Jack.....	Bronze Medal
Best Cotton Hose.....	Bronze Medal
Best Linen Hose.....	Bronze Medal
Best Rubber Hose.....	Bronze Medal
Best Brake Hose.....	Bronze Medal
Best Tank Hose.....	Bronze Medal
Best Nuts (Hot Pressed).....	Silver Medal
Best Nuts (Cold Pressed).....	Silver Medal
Best Portable Forge.....	Bronze Medal
Best Pulley Block.....	Bronze Medal
Best Speed Recorder.....	Silver Medal
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Best Rock Crusher.....	Silver Medal





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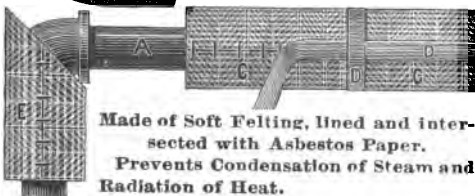
## Department H — Miscellaneous — Continued.

Best Track Signal (Torpedo) .....	Bronze Medal
Best Crossing Signal .....	Silver Medal
Best Surveyor's Transit .....	Silver Medal
Best Surveyor's Field Glass. . . . .	Bronze Medal
Best Surveyor's Compass .....	Silver Medal
Best Surveyor's Quadrant .....	Silver Medal
Best Display of Surveyor's Instruments .....	Gold Medal
Best Variety Engineer's Drawing Tools .....	Bronze Medal
Best Engineer's Level .....	Bronze Medal
Best Engineer's Barometer .....	Bronze Medal
Best Set Engineer's Railway Curves .....	Bronze Medal
Best Leveling Rod .....	Bronze Medal
Best Prismatic Compass .....	Bronze Medal
Best Tire Heater .....	Bronze Medal
Best Turn Table (Working Model or otherwise) . . . . .	Gold Medal
Best Conductor's or Engineer's Watch .....	Silver Medal
Best Train Badge .....	Bronze Medal
Best Switch Lamp .....	Silver Medal
Best Wire Rope .....	Silver Medal
Best Rear Signal Lamp .....	Bronze Medal
Best Target Lamp .....	Bronze Medal
Best Safety Gate for Crossing .....	Gold Medal
Best Power Blower .....	Silver Medal
Best Hand Blower .....	Bronze Medal
Best Coal for Locomotives .....	Silver Medal
Best Syphon .....	Bronze Medal
Best Time Detector .....	Bronze Medal
Best Culvert Pipe .....	Silver Medal
Best Flanger Device to Remove Compact Snow and Ice from between the Rails, and a Proper Space Outside the Track .....	Gold Medal
Best Elevated Railway System .....	Gold Medal
Best Electric Railway .....	Gold Medal
Best Iron Chain .....	Silver Medal
Best Steel Boiler Flue (Lap Welded) . . . . .	Silver Medal
Best Iron Boiler Flue (Lap Welded) .....	Silver Medal

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**Bollers,  
Steam,  
Gas,  
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Water  
Pipes.**

**78 & 80 Lake St., Chicago.**

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**Department H — Miscellaneous — Continued.**

Best Copper Boiler Flue.....	Silver Medal
Best Seamless Copper Pipe.....	Silver Medal
Best Seamless Brass Pipe .....	Silver Medal
Best Gray Iron Castings .....	Bronze Medal
Best Malleable Iron Castings.....	Bronze Medal
Best Steel Castings .....	Bronze Medal
Best File .....	Silver Medal
Best Automatic Switch .....	Silver Medal
Best Switch Signaling Device.....	Silver Medal
Best Electric Signaling Device for Block or other Signals....	Gold Medal
Best Sign for Railway Crossings .....	Bronze Medal
Best Axle Carrier .....	Bronze Medal
Best Axle Lift .....	Bronze Medal
Best Tail Lamp.....	Bronze Medal
Best Railroad Lantern .....	Bronze Medal
Best Semaphore.....	Silver Medal
Best Semaphore Lens .....	Silver Medal
Best Uniform for Train Men .....	Silver Medal
Best Snow Plow.....	Gold Medal

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*Is on exhibition at Avenue A, Jackson Street Entrance, Near South-west Stairway National Exposition of Railway Appliances.*

Some of the meritorious points of this Coupling are, **Cheapness and Durability**, saving yearly more than its price over the cost of the ordinary Draw-Bar; no broken Draw-Heads; no broken

or bent Pins; no broken Draw-Springs;

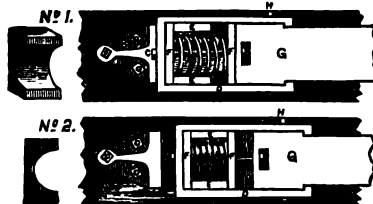
### SAFETY FOR THE MEN.

We invite competitive and public tests with any other Draw-Bar in use.

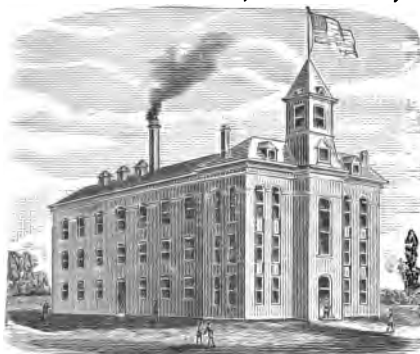
The Perry Draw-Spring Protector is an absolute Protection to Draw-Springs.

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## The Spanish-American Curled Hair Co. FACTORY, PULLMAN, ILLINOIS.



For cleanliness, durability and elasticity unexcelled by any other fibre now in use. It is especially adapted for the following purposes:

**Over-Stuffed Furniture, Mattresses, Pillows, Cushions, Car Seats, Carriages, Churches, Hotels, and Steamboats.**

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CENTRAL MUSIC HALL BLD'G.

**Pullman (City) Mattresses a Speciality.**

☞ Sample of Spanish American Curled Hair sent by mail to any address. ☛

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Best Iron Wheel.....	Silver Medal
Best Combination Wheel .....	Silver Medal
Best Rail.....	Silver Medal
Best Rail Joint.....	Silver Medal
Best Car.....	Gold Medal
Best Car Spring.....	Silver Medal
Best Draw Spring.....	Bronze Medal
Best Street Car Gong .....	Bronze Med
Best Bell Cord and Fixtures Complete.....	Bronze Medal
Best Fare Box .....	Silver Medal
Best Center Lamp.....	Silver Medal
Best End Lamp.....	Bronze Medal
Best Hand Rail Bracket .....	Bronze Medal
Best Hand Rail Socket .....	Bronze Medal
Best Journal Bearing.....	Bronze Medal
Best Door Locks.....	Bronze Medal
Best Window Fixtures .....	Bronze Medal
Best Window Blinds Complete.....	Bronze Medal
Best Registering Punch .....	Bronze Medal
Best Registering Device .....	Bronze Medal
Best Track Cleaner .....	Silver Medal
Best Sheave for Sliding Door.....	Bronze Medal
Best Change Gate .....	Bronze Medal
Best Door Hook and Plate.....	Bronze Medal
Best Door Handle .....	Bronze Medal
Best Door Roller .....	Bronze Medal
Best Hame Bell.....	Bronze Medal

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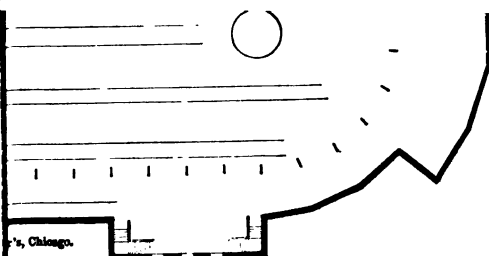
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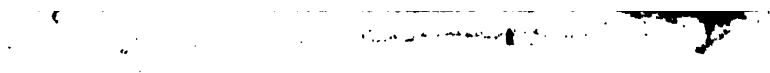


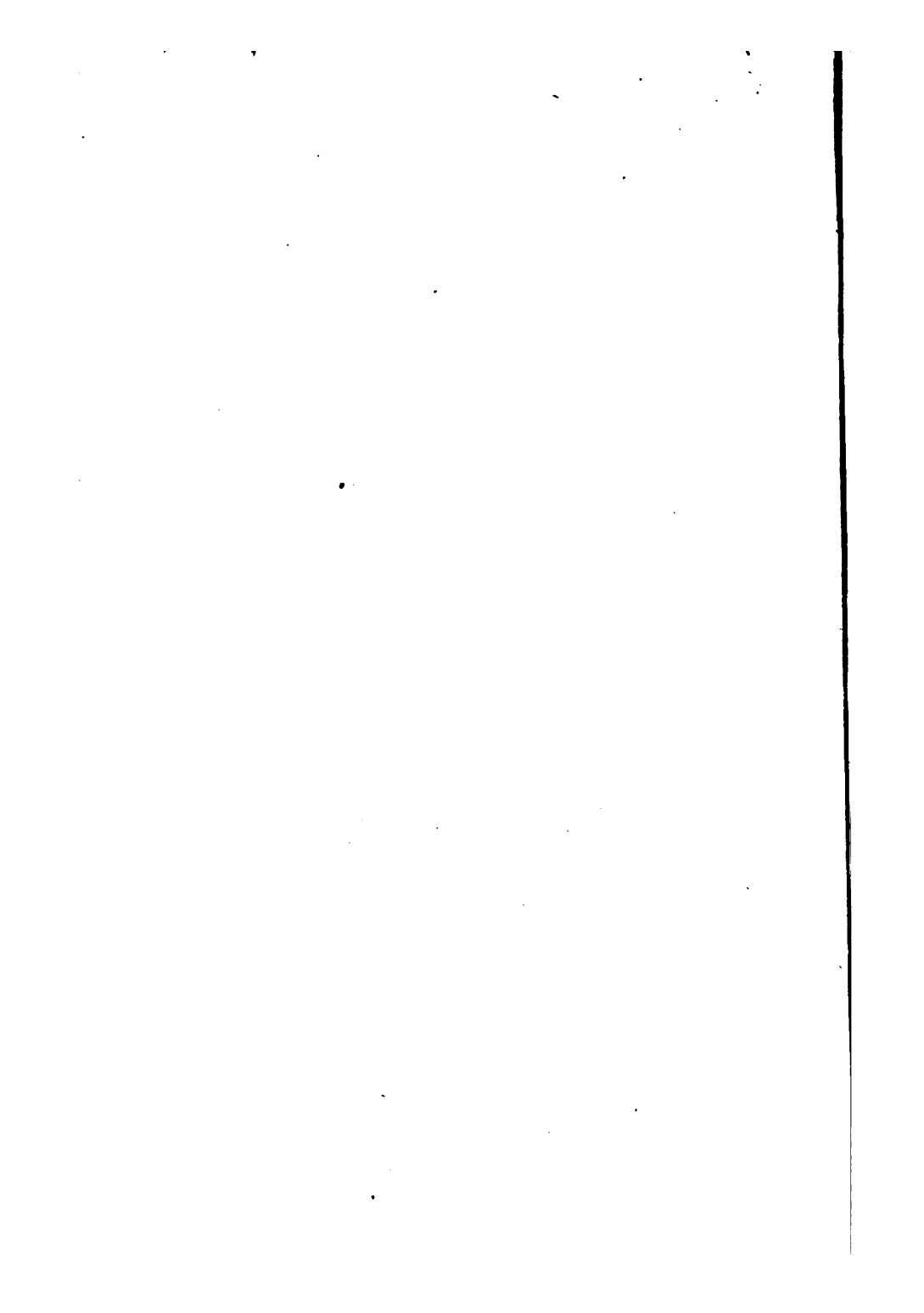
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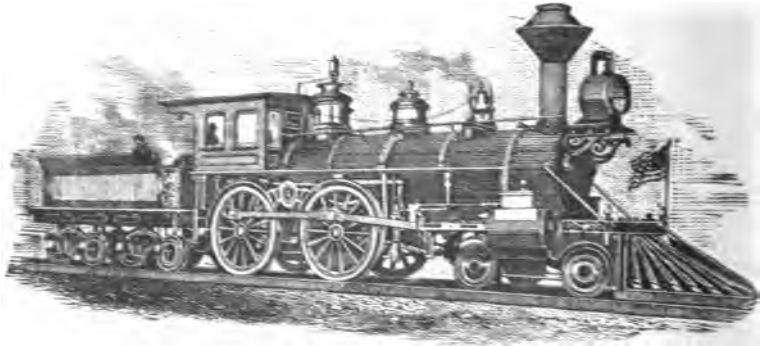
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## NAMES AND ADDRESSES OF EXHIBITORS AND INDEX

SHOWING, WITH AID OF DIAGRAM, THE LOCATION OF THEIR  
EXHIBITS IN THE MAIN BUILDING AND ANNEX.

The following list is as complete as it can be made at the date of publication. Many important exhibits coming in late, the allotment of space has been a matter of extreme difficulty, and many exhibits are as yet not permanently located. A further edition will be issued when the arrangements are finally completed.

The exhibits are arranged, according to class, on the floor of the main building, which is divided by avenues, to which have been given the names of the letters of the alphabet; in the various galleries, with their alcoves, known by numbers, and in the annex, south of the main building. The following note and the lettering after each exhibit will be readily understood:

NOTE.—Avenues on main floor are designated by letters. Alcoves in gallery by numbers. S. P. is for southern projection of gallery; N. P. for northern projection; C. P. is for centre projection; W. S. is for west side of annex; E. S. for east side; O. C. for open court, and Ax. for the north end of annex under roof.

### AXLES, TIRES, ETC.

Andrews & Cloony, Car springs, New York.....	Avenue G
Arthur, A. A., Agent, Car and locomotive springs and steel, Boston..	Ave B
Baugh Steam Forge Co., Detroit, Mich.....	Ax
Boston Forge Co., Dies, etc., Boston.....	C P of Main Alcove
Chicago Forge & Bolt Co., Chicago. ....	H
Dixon Car Axle Co., Loose car wheel axle, Chicago.....	Ax
Helmbacher Forge & Rolling Mill Co., St. Louis, Mo.....	F G
Nashua Iron & Steel Co., Nashua, N. H.....	A B
Otis Iron & Steel Co., Cleveland, O.....	Ax
Pickering, C. W. & Co., Springs, Philadelphia.....	E F
Prosser, Thos. & Son, Krupp Tires, New York.....	Ax
Pittsburg Forge & Iron Co., Pittsburg, Pa.....	F
Whitney, A. & Sons, Philadelphia.....	Ax

**BRIDGES.**

Chanute, O., Photographs of bridges, etc., New York.....	35
Delaware Bridge Co., Drawings and models, Chicago.....	F
Keystone Bridge Co., Bridge sections, Pittsburg, Pa.....	Ax

**BRAKES.**

American Brake Co., Automatic brake, St. Louis, Mo.....	I
Banning, H. A., Brake shoe, New York.....	N P
Brockway, Marcus, Air brake, Jamestown, N. Y.....	Ax
Brown, Chas. T., Electric street-car brake and starter, Chicago,	

C P Main Alcove

Card, W. L., Automatic brake, La Crosse, Wis.....	5
Condon Brake Shoe Co., Chicago.....	B C
Denver Railway Car Brake Co., Denver, Col.....	18
Ebl, Edward, Brake, Cedar Rapids, Iowa.....	S P
Ford, Walter J., Air brake, Concord, Tenn.....	N P
Gentil, Conetant, Brake, St. Louis, Mo.....	S P
Goldie, Wm., Railroad spikes, West Bay City, Mich.....	S P
Howard, W. B., Air brake, Belvidere, Ill.....	44
Park, H. S., Electric brake, Henderson, Ky.....	R
Prosser, Thos. & Son, Eames' brake, New York.....	Ax
Ridgway, E. H., Brake beam, Philadelphia.....	17
Rote Automatic Brake Co., Lancaster, Pa.....	Ax
Standard Brake Shoe Co., Fort Wayne, Ind.....	C
Turner & Board, Freight brake, New York.....	C
Waldumer Electro-Magnetic Brake Co., Cincinnati, Ohio.....	
Westinghouse Air Brake Co., Pittsburg, Pa.....	South end Main Building
Widdifield, W. P., Automatic brake, Uxbridge, Canada.....	7

**BUFFERS AND PLATFORMS—See Drawbars.****BUILDING MATERIAL.**

Allyn, H. A. & Co., Metallic shingles and siding, Chicago.....	O C
Carnegie Bros. & Co., I beams, etc., Pittsburg, Pa.....	Ax
Colson, Chas. D., Firebrick, Chicago.....	G
Chanute, O., Preserved timber, New York.....	33
Denver Fire Brick Co., Denver, Col.....	F
Francis, James, Kyanized timber, Lowell, Mass.....	F G
Stone, R. B., R. R. lumber, Chicago.....	F

**BOILERS, FLUES, GRATES, ETC.**

Allison, W. C., Welded flues, Philadelphia.....	F G
American Tube Works, Brass and Copper, Boston.....	D E
Butman Furnace Co., Fire doors, Cleveland, Ohio.....	Ax
Coventry, C. B. & Co., Super-heating boiler, Chicago.....	E S
Fitzgibbons, Patrick, Locomotive boiler model, Oswego, N. Y.....	S P
Justice, Phillip S. & Co., Steel tubes, Philadelphia.....	Ax
National Tube Works, Pipes, etc., Boston.....	K

**CARS, TRUCKS AND HAND CARS.**

American Live Stock & Meat Trans. Co., New York .....Ax  
 Anderson, A. V., Stock and freight car, Virginia City, Nev..

**C. P. Main Alcove.**

Blacke Bros., Hand car, Chicago.....Ax  
 Burton Stock Car Co., Freight and stock car, Boston.....W S  
 Bucyrus Foundry & Mfg. Co., Hand cars, Bucyrus, O.....Ax  
 Ball, Chas. A. & Co., Automatic truck, Midland Park, N. J.....Ax  
 Brownell & Wright Car Co., Street car, St. Louis, Mo.....Ax  
 Brill, J. G. & Co., Passengers and street cars, Philadelphia, Pa.....W S  
 Clark, Josiah M., Hand car. Howell, Mich.....B  
 Central Support Car Truck Co., St. Louis, Mo.....  
 Chestorman, Edwin, Street car, Philadelphia.....W S  
 Chicago Car Roofing Co., Chicago.....C  
 Dudley, P. H., Dynagraph and inspection car, New York, N. Y.....W S  
 Discey, John, Stock and freight car model, Michigan City, Ind.....2  
 Goodell, H. C., Refrigerator car, Chicago.....Ax  
 Holt, D., Coal car model, West Albany, N. Y.....I  
 Harrison Postal Bag Rack Co., Postal cars, Fond du Lac, Wis.....W S  
 Hammond, Isaac B., Dump wagon, Chicago.....Ax  
 Handlett, ..... Car body, Boston.....L  
 Industrial Works, Wrecking car, Bay City, Mich.....O C  
 Jeffery, Thos. B., Velocipede, Chicago.....Ax  
 Jackson & Sharp Co., Passenger coach, Wilmington, Del.....  
 Lykke Svend, Freight car model, Omaha, Neb.....52  
 La Fayette Car Co., Hand, push, iron laying car, La Fayette, Ind..B C—W S  
 Lorenz Patent Refrigerator Car Co., Hamilton, Ohio.....O C  
 Morris & McLane, Cooling journal device, Olney, Ill.....Ax  
 Meatyard, E. B., Arch bar for car trucks, Lake Geneva, Wis.....O  
 Michigan Car Co., Detroit, Mich.....O C  
 Merchants' Dispatch Transportation Co., Refrigerator car, New York..O C  
 Milliken, Boyd & Co., Dump car, Youngstown, O.....  
 Maher, John P., Freight car model, Philadelphia.....O C  
 North Chicago City Railway Co., Street car, Chicago.....W S  
 New York Live Stock Express Co., New York.....O C  
 Oehl Stock and Freight Car Co., Belle Vernon, Pa.....O C  
 Pullman Palace Car Co., Chicago.....Ax  
 Peninsular Car Co., Detroit, Mich.....O C  
 Post Refrigerator Car Co., Boston.....O C  
 Robinson Standard Car Box Co., Cincinnati, O.....Q  
 Ridgeway Patent Refrigerator Co., Philadelphia.....O C  
 Railway Age, Exhibition car, Chicago.....W S  
 Ramey, R. H., Truck shifter, Philadelphia.....19  
 St. Charles Car Co., St. Charles, Mo.....W S  
 Suspension Car Truck Manufacturing Co., Chicago.....Ax  
 Strugnell, J. H., Stock and freight car model, Toronto, Canada.....22  
 Sheffield Velocipede Car Co., Hand car, Three Rivers, Mich.....B



**Cars, Trucks and Hand Cars — Continued.**

Stock, H. T., Inspectors' car, Toledo, Ohio.....	Ax
Studebaker Bros. Manufacturing Co., Dump carts and wagons, Chicago.....	O C
Tiffany Refrigerator Car Co., Chicago.....	O C
Texas Continental Transportation Co., Refrigerator car, Cincinnati.....	O C
Thomas & Morrison, Model freight and stock car, Alpena, Mich.....	
United States Car Co., Screw lever dump car, Boston.....	O C
United States Tube Rolling Stock Co., Tube freight car, New York.....	Ax
Wheeler, N., Passenger car, Bridgeport, Conn.....	W S
Thlerson Car Truck Co., Car truck, Chicago.....	C D
Wiser, Samuel C., Stock and freight car model, Chicago.....	24
Zimmerman, A. W., Refrigerator car, Englewood, Ill.....	O C

**COUPLERS, CARS.**

Aldrich, L., Sioux Falls, Dak.....	N P
Avery Car Coupling Co., Lynn., Mass.....	E S
Blakeely, L. M., Automatic, Washington, D. C.....	36
Best Car Coupler Co., Automatic, Denver, Col.....	6
Buford, B. D., Rock Island, Ill.....	Ax
Bird, Bernard, Buffalo, N. Y.....	S P
Breen, Thos., Knowlton, Pa.....	9
Ballard, C. J. R., Orland, Cal.....	20
Cowell, R. A., Cleveland, Ohio.....	E
Clark, A. W. Huron, Ind.....	36
Cram, E. S., Laconia, N. H.....	C P
Cordrey, Francis, Ft. Wayne, Ind.....	9
Caspar, Edward, Collomsville, Penn.....	5
Davison, J. P., St. John's, Ill.....	26
Darrow, L. E., Corning, Iowa.....	A
Dellne, Jeremiah, Akron, Ohio.....	34
Excelsior Life Saving Car Coupling Co., New York.....	S P
Edwards, G. J., Tipton, Mo.....	76
Ellis, A. C., Birmingham, Mich.....	36
Fitzgerald & Van Dorn, Automatic, Lincoln, Neb.....	G
Fowler, Joseph C., Automatic, Galveston, Tex.....	32
Godshaw, Chas., Louisville, Ky.....	8
Galentine, E. C., Bourbon, Ind.....	C P
Gifford Car Coupling Co., Cincinnati, Ohio.....	B
Garrett, Simeon, Columbus, Ohio.....	28
Grisham, W. M., Winchester, Ill.....	40
Howard, W. H., Belvidere, Ill.....	44
Heaverin, Wm. H., St. Louis, Mo.....	C P
Hawkins, W. A., Waxahachie, Tex.....	C P
Hilliard Car Coupling Co., Kansas City, Mo.....	Ax
Hatfield, L., Automatic freight, Boston.....	W S
Hawley, Frank W., Rochester, N. Y.....	C P

**Couplers, Cars — Continued.**

James, Geo. W., Automatic, Lima, Ohio.....	C P
Kelley, Daniel E., Gaylord, Kas.....	7
Kiely, J. D., Toronto, Can.....	Ax
Kroblen, Henry, Boone, Iowa.....	32
Kunkel, D., Sr., Oregon, Mo.....	34
Lawrence & Parker, Cincinnati, Ohio.....	5
Lyle, W. R., Ripon, Wis.....	38
Look, John C., Olathe, Kan.....	Ax
Lindsay & McCutchen, Coupler and buffer, Allegheny, Pa.....	Ax
Lovelace, W. A., Automatic freight, Richmond, Mass.....	44
Long, Uriah, Papillion, Neb.....	2
Lancaster, J. P., Goshen, Ind.....	52
Meredith, Jno. H., Surrattsville, Md.....	1
Marcheter, M., Wallaceburg, Canada.....	2
McConway, Torley & Co., "Janney," Pittsburg, Pa.....	E
McCann, M. W., Dublin.....	44
McKay, R. N., Chicago.....	13
Mitchell, H., Boston.....	6
Mark, C. E., Flint, Mich.....	C P
McGraw, John S., Richmond, Ind.....	38
McIver, Wm., Rochester, Ind.....	34
Nirdlinger & Heath, Fort Wayne, Ind.....	Ax
Nuckols, Wm. L., Automatic, Austin, Tex.....	4
National Automatic Car Co., Automatic freight, Camden, N. J.....	44
Owen, Asa K., Geneva Lake, Wis.....	S P
Powell, R., Kansas City, Mo.....	N P
Perry Safety Car Coupling Co., Chicago.....	A
Pursley, J. J., Automatic, Wetmore, Kan.....	G
Robinson, Geo. M., Dubuque, Iowa.....	7
Sebring, H. K., East St. Louis, Ill.....	S P
Shelley, G., Wilkesbarre, Pa.....	3
Shippee, Charles H., Coupler and buffer, Wickford, R. I.....	3
Schledler, John, Coldwater, Mich.....	24
Sankey, E. B., Salem, Mo.....	
Safford, James B., Buffalo, N. Y.....	A
Sherman, D. H., Waukegan, Ill.....	74
Stover, Isaac L., Centralia, Ill.....	C P
Taylor Bros, Indianapolis, Ind.....	4
Tucker, C. B., Coolville, Ohio.....	10
Thompson, R. G., White Cottage, Ohio.....	10
Wilkerson, Lafayette, Scipio, Ind.....	2
Wise & Davis, Alton, Ill.....	3
Watkins, W. W., Bellvue, Ia.....	3
Wallenberg, Gustave, Chicago.....	28
Zachringer, Wm., New Orleans, La.....	18

**CABLES, ROPES, WIRES, ETC.**

Allis, T. U. Mfg. Co., Trenton, N. J.....	Ax
Carpenter, Geo. B. & Co., Chicago.....	Ax
Harrison Wire Co., St. Louis, Mo.....	Ax
Roebbling's Sons Co., John A., Trenton, N. J.....	Ax
Upson, Walton & Co., Cleveland, Ohio.....	G

**DRAWBARS AND BUFFERS.**

American Continuous Drawbar Co., Aurora, Ind.....	Ax
Automatic Traction Drawbar Co., Albany, N. Y.....	
Butler, Geo. Excelsior, Cincinnati, Ohio.....	4
Burns, E. J., Automatic, Dayton, Ohio.....	10
Cleveland Malleable Iron Co., Cleveland, Ohio.....	C
Cowell Platform & Coupler Co., Cleveland, Ohio.....	E
Crouch, Wesley, Compressed air buffer, Rochester, N. Y.....	F G
Powell, R., Automatic, Kansas City, Mo.....	N P
Davenport, J., Drawbar, Massillon, Ohio.....	88
Holt, D., West Albany, N. Y.....	I
Lawrence & Parker, Drawbar, Cincinnati, Ohio.....	5

**ENGINES, STATIONARY.**

Ames Iron Works, Chicago.....	Ax
Rice, Whitacre & Co., Kriebel engines, Chicago.....	H
Southwark Foundry & Machine Co., High speed engine, Philadelphia....	O
Westinghouse Machine Co., Pittsburg, Pa.....	C

**ENGINEERS' INSTRUMENTS AND SUPPLIES.**

Abbott, A. H. & Co., Draughtsmen's supplies, Chicago.....	E
Buff & Berger, Boston.....	F
Bergner, Theodore, Drawing Boards, Philadelphia.....	Ax
Manasse, L., Chicago.....	C D
Kneffel & Esser, Drawing materials, New York.....	
Strassberger, L. R., Chicago.....	75
Young & Sons, Philadelphia.....	F

**ELECTRIC RAILWAYS.**

United States Electric Lighting Co., New York.....	
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**ELECTRIC LIGHTING.**

American Electric Light Co., Thomson-Houston system, Chicago.....	P
Brush Electric Light Co., Chicago.....	L
Faller Electrical Co., Lighting apparatus, Chicago.....	K L
United States Electrical Lighting Co., New York.....	

**ELEVATED RAILWAYS, TRAMWAYS, ETC.**

Allen, Norman, Rockaway Beach, New York.....	S R
Pyott, Louis T., Model, Philadelphia.....	N R
Sherman Automatic Railway Co., Chicago.....	

**FROGS, SWITCHES, ETC.**

Archer, C. W., Wrecking frog, Ludlow, Ky.....	I
Bowler & Co., Frogs, Cleveland, Ohio.....	I
Boomer, L. S., Leese Union & Steel Co., Chicago.....	E
Black & English, Safety plates, Marlette, Mich.....	21
Breen, Thos., Knowlton, Pa.....	9
Brooks, R. G., Switch, Scranton, Pa.....	S P
Close, J. W., Frog, Buffalo, N. Y.....	Ax
Clark, Jeffery Switch Co., Chicago.....	D
Derechaud, J., Safeguard, San Francisco.....	15
Elliot, H. & H., East St. Louis, Ill.....	O C
Emley & Co., Indianapolis, Ind.....	O C
Gray Switch Co., Chicago.....	E
Harper, H. M., Levers and rod, Elmira, N. Y.....	O C
Jersey City Iron Works, Jersey City, N. J.....	O C
Morden Frog & Crossing Co., Chicago.....	I K
Ramapo Iron Works, Hillburn, N. Y.....	O C
Smith & O'Leary, Chicago.....	Ax
Standard Switch Co., Topeka, Kan.....	Ax
True, O. J., Switch and stand, Port Clinton, Ohio.....	26
Trout, J. W., Switch chair, Kewanee, Ill.....	C P
Wharton Railroad Switch Co., Philadelphia.....	O C
Wharton, Wm. Jr., & Co., Crossings, street-railway curves, Phila.....	K L
Weir, F. C., Cincinnati, Ohio.....	Ax

**FURNITURE AND FURNISHINGS.**

Andrews & Co., A. H., Desks and chairs, Chicago.....	B C
Bushnell, E. L., Springs and upholstering materials, Poughkeepsie, N. Y.....	A B
Burley & Tyrrell, China and silverware, Chicago.....	L
Chesterman, Edwin, Car seat, Howell, Mich.....	W S
Creamer, Wm. G. & Co., Interior trimmings, New York.....	C
Cobb, Z. & Son, Seat and back springs, Chicago.....	B C
Forest City Furniture Co., Rockford, Ill.....	3
Foulke, Wm. H. & Co., Chicago.....	I
Gardner & Co., Seats, etc., New York.....	D E
Haas, D. F., Seat and arm-chair, Philadelphia.....	14
Hale & Kilborne Mfg. Co., Seats, springs, chairs, etc., Philadelphia.....	B C
Hart, H. C. & Co., Trimmings, Detroit, Mich.....	A
Horton, N. N., Reclining chairs, Kansas City, Mo.....	D
Lacock, Samuel & Sons, Rugs, hair coverings, etc., Sheffield, Eng.....	B
Mason, C. C., Seat, Altoona, Pa.....	G
Marks' Adjustable Folding Chair Co., New York.....	33
McGrath, John J., Lincrusta-Walton-Decorating material, Chicago.....	42
Rubber Step Mfg. Co., Boston.....	S R
Raw Hide Mfg. Co., Raw hide seating, Boston.....	Ax

**Furniture and Furnishings — Continued.**

Richards & Dinsley, Car seat, Chicago.....	Ax
Spanish-American Curled Hair Co., Chicago.....	Ax
Wakefield Rattan Co., Rattan seats, Boston.....	B C
Yandall, C. R. & Co., Embossed Spanish leather, New York.....	N R
Yeoman, E. Seat Springs, Chicago.....	9

**FENCES, FENCE POSTS.**

American Iron Post and Construction Co., New York.....	
Reicheneker, W. C., Denver, Col. ....	Ax
Washburn & Moen, Mfg. Co., Chicago.....	E F
Western Fence Co., Chicago.....	Ax

**LOCOMOTIVES.**

Brooks Locomotive Works, Dunkirk, N. Y.....	Ax
Baldwin Locomotive Works, Philadelphia.....	E S
Cooke Locomotive & Machine Co., Mastodon, Paterson, N. J.....	E S
Chand'or, John, Model, Brooklyn, N. Y.....	S P
Dickson Mfg. Co., Scranton, Pa.....	Ax
Mt. Salvage Locomotive Works, N. G. Locomotive, Mt. Salvage, Md.....	E S
Pittsburg Locomotive & Car Works, Pittsburg, Pa.....	S P
Philadelphia & Reading Railroad Co., Philadelphia.....	S P, E S
Shay, Ephraim, Model, Haring, Mich.....	68

**LOCOMOTIVE SUPPLIES — See Steam Engine Supplies.****LUBRICANTS, WASTE, ETC.**

Baker & Lewis, Chicago.....	C P
Chester Oil Co., Philadelphia.....	H
Calhoun, W. S. & Co., Chicago.....	Ax
Leib Lubricating Co., Buffalo, N. Y.....	
Noyes Mfg. Co., Boston.....	S P
Pease, F. S., Buffalo, N. Y.....	L
Voute, B. F., Chicago.....	E
Wells Bros., Parkersburg, W. V.....	

**MISCELLANEOUS.**

Brehomer Bros., Bevel wheels, Philadelphia.....	B
Bauman & Lotz, Grain elevator model, Chicago.....	N P
Blackmer & Post, Vitrified culvert pipe, St. Louis.....	A B
Branch H. A., Steam round-house heating, Chicago.....	Ax
Bartlett Street Lamp Mfg. Co., New York.....	64
Brown Hoisting and Conveying Machine Co., Cleveland, O.....	Ax
Carleton, C. G. & Co., Rubber goods, etc., Chicago.....	R
Campbell John, Hot air blast and smoke consumer, Bay View, Wis....	Ax
Clark, G. P., Hand Truck and Platform, Windsor Locks, Conn.....	L
Commissioners of the Nat. Ex. of Railway Appliances, Models and curiosities, Chicago.....	Ax

## Miscellaneous — Continued.

Chanute, O., Preserved timber, New York.....	35
Chicago Screw Co., Chicago.....	H
Caldwell, H. W., Conveyor for mixing concrete, Chicago... ..	N P
Chisholm, W. & Sons, Shovels, spades, etc., Cleveland, O.....	Ax
Chester Steel Casting Co., Philadelphia.....	G
Cincinnati and Newport Iron & Pipe Co., Newport, Ky.....	Ax
Chapin, L. D., Pneumatic wrought iron piles, Chicago.....	
Calumet Iron & Steel Co., Steel castings, etc., Chicago.....	
Chicago Forging Co., Chicago.....	
Dallett, Thomas H. & Co., drills, Philadelphia.....	
Davis & Gratz, Journal box and dust guard, Philadelphia.....	
Douglass, Thompson & Co., Photo apparatus for engineers, Chicago... ..	35
DeWeese, F. W., Lifting jacks, Chillicothe, O.....	
Detroit Iron Furnace Co., Detroit.....	Ax
Exhaust Ventilator Co., Fan, Chicago.....	
Entwisle & Kenyon, Vises, Batavia, Ill.....	R
Eureka Fire Hose Co., Chicago.....	S P
Egyptian Chemical Co., Disinfectants, Boston.....	N P
Frese, B., System for operating trains, Chicago... ..	15
Farquar-Oldham Filter Co., New York.....	68
Felthousen, E. G., Mechanical specialties, Buffalo, N. Y.....	A
Fire Extinguisher Mfg. Co., Chicago.....	31
Gandy Belting Co., Baltimore, Md.....	I
Gump, B. F., Duck elevator buckets, Chicago.....	Ax
Glass Veneer Co., Boston.....	Ax
Giles Bros. Co., Clocks and watches, Chicago.....	K
Henning, W. B., Drawings of railway system, Waterloo, Ind.....	C P
Harrington & King Perforating Co., Chicago.....	I
Harrison Conveyor, Chicago.....	Ax
Hotchkiss, James F., Boiler cleaner, New York.....	S
Hartford Hammer Co., Hartford, Conn.....	P
Huyett & Smith, Mfg. Co., Fans and blowers, Detroit, Mich.....	H
Hussy, Howe & Co., Cast steel, Pittsburg, Pa.....	B C
Hamilton Rubber Co., Trenton, N. J.....	L
Hagstoz & Thorpe, Watch cases, Chicago.....	I
Howell, M. A., Jr., Files, McHenry, Ill.....	L
Jeffries, B. J., M.D., Marmalon color blindness, Boston, Mass.....	66
Jones & Co., Rocking grate bar, Chicago.....	H
Jones, J. M. W., Stationery & Printing Co., Railway blanks, Chicago....	45
Kimball, G. F., Glass, Chicago.....	Ax
Kelly Scroll Section Mfg. Co., Non-conducting covering, Chicago.....	79
Kimball, H. I., Noyes' lumber dryer, Pullman, Ill.....	S
Lacey, G. S., Allen Adv. Clock, Chicago.....	Near Main Entrance
Manly & Cooper Mfg. Co., Hand railing, Philadelphia....	H
Michigan Land and Iron Co., Minerals and woods, Marquette, Mich.....	47

**Miscellaneous—Continued.**

McIntosh, Jas. D., Cloth steeper for copying letters, Milwaukee.....	28
Marshall Bros. & Co., Leaded sheet iron, Philadelphia .....	Ax
New England Mat and Brush Co., Boston .....	N P
Neil Bros., Oil tanks, Chicago.....	Ax
Ohl, Geo. A. Co., Screw jacks, etc., East Newport, N. J.....	77
Penfield Block Co., Trucks, pulleys, etc., Lockport, N. Y.....	E F
Phillips, F., Gas producer (drawings) .....	Ax
Rickey, W. H., Agt., Hoisting Machinery, blocks, etc., Cincinnati, Ohio..	P
Remington, E. & Son, Type writer, Ilion, N. Y.....	L
Rendle, Arthur E., System of glazing, New York.....	83
Sandusky Derrick Co., Sandusky, Ohio.....	27
Seabury & Johnson, Surgical cases, etc., New York.....	C P
Slawson, J. B., Fare boxes, New York.....	B
St. Louis Wood Preserving Co., St. Louis, Mo.....	
Shoudy, I. & D. W., Lifting jacks, Paw Paw, Ill.....	S P
Seely, M. T., Son & Co., Grain elevator model, Fremont, Neb.....	K
Stow Flexible Shaft Co., Philadelphia.....	
Taper Sleeve Pulley Works, Erie, Pa.....	
Tower, John J., Wrenches, etc., New York.....	Q
Union Steel Screw Co., Tacks, etc., Cleveland Ohio.....	Ax
Vulcan Furnace Co., Detroit, Mich.....	Ax
Western Sand Blast Co., Chicago .....	C D
Wampum Cement & Lime Co., Wampum, Pa... ..	Ax
Wyman, W. C., Hocking Coal, Chicago .....	Ax
Webster & Comstock Mfg. Co., Grain shovel and conveyor, Chicago. ...	K
Watson, Wm., Model of grain elevator, Chicago.....	O C
Wilson, J. G., Flexible blinds, New York .....	Ax
Winifrede Coal Co., Coal, Winifrede, W. Va.....	G

**MACHINERY, IRON WORKING.**

American Tool & Machine Co., Boston.....	N
American Car Wheel Grinding Co., Chicago.....	N
Baldwin & Doss, Kansas City, Mo. . . . .	Ax
Betts Machine Co., Wilmington, Del.....	L M
Barnett, G. & H., Files and rasps, Philadelphia.....	E F
Bell, David, Steam hammers, Buffalo, N. Y.....	S
Boston Blower Co., Forges, Boston.....	I
Brainard Milling Machine Co., Hyde Park, Mass.....	L M
Buffalo Forge Co., Blowers and exhausts, Buffalo, N. Y.....	M
Chilled Car Wheel Grinding Co., Truing machines, Chicago.....	I
Cleveland Steam Gauge Co., Forges and blowers, Cleveland.....	I
Colliat, Furnace Co., Cupola, Detroit, Mich.....	Ax
Charlton, James, Machine for welding flues, Houston, Texas.....	N P
Cross, C. G., Nut tapper, Chicago.....	P
Dietz, Robert E., Press and punches, Chicago.....	Q

**Machinery, Iron Working — Continued.**

Empire Portable Forge Co., Cohoes, N. Y .....	P
Fisher & Norris, Anvils and vises, Trenton, N. J .....	G
Gowan, J. H., Car wheel boring and trueing machine, Chicago .....	I
Gordon, Maxwell & Co., Steam hammers, Hamilton, O .....	I K
Howard Bros., Nut tapping, Fredonia, N. Y .....	Q
Hartz & Fix, Welding machine, Cleveland, Ohio .....	H
Hercules Iron Works, Punching machine, Chicago .....	N
Hendy Machine Co., Irvington, Conn .....	L M
James & Co., W. A., Chicago .....	N
Kingman & Co., Flue expanding and beading machine, Chicago .....	F G
Machine Tool Works, Philadelphia .....	L
Niles Tool Works, Hamilton, Ohio .....	I F
Novelty Iron Works, Bolt machinery, Cleveland, Ohio ...	M N
National Machinery Co., Bolt & nut machinery, Tiffin, O .....	L M
National Chuck Co., New Haven, Conn .....	I P
Ottumwa Iron Works, Ottumwa, Ia .....	Q
Ottumwa Iron Works, Screw machine, Ottumwa, Ia .....	Q
Pratt & Whitney Co., Hartford, Conn .....	K L
Plamondon Mfg. Co., Chicago .....	I
Reed, J. B., Cairo, Ill .....	S
Roche, J. A. Chicago .....	M
Star Tool Co., Machinery, Providence, R. I .....	L M
Shumway, Burgess & Co., Bolt machinery, Chicago .....	M N
Sellers, Wm. & Co., Philadelphia .....	I K
Sand Blast File Sharpening Co., Wilmington, Del .....	S
Shelly, G. Mandrel, Wilkesbarre, Pa .....	S
Vitrified Emery Wheel Co., Westfield, Mass .....	L M

**MACHINERY, WOOD WORKING.**

Andrews, R. H., Washington, D. C .....	.
Bullard, E. P., New York .....	.
Fay, J. A. & Co., Cincinnati, Ohio .....	H I
Greenlee Bros. & Co., Chicago .....	H I
Goodell & Waters, Philadelphia .....	H I
National Mortising Machine Co., Chicago .....	I P
Pratt & Whitney Co., Hartford, Conn .....	K L

**PUMPS AND WATER SUPPLY MACHINERY.**

American Well Works, Aurora, Ill .....	N P
Blakeslee Mfg. Co., Du Quoin, Ill .....	K
Burkhardt's G. J. Sons, Cedar tank, Philadelphia .....	O C
Cammeyer & Sayer, Hot air engines, Chicago .....	I
Cameron, A. S., Steam pumps, New York .....	K



**Pumps and Water Supply Machinery — Continued.**

Cloud Mfg. Co., Detroit, Mich.....	I
Delameter Iron Works, New York.....	K
Davidson Steam Pump Co., New York.....	J
Deane Steam Pump Co., Holyoke, Mass.....	P
Egelhoff Mfg. Co., Wind mills, Milwaukee, Wis.....	Ax
Gordon & Maxwell Co., Hamilton, O.....	I K
Hooker & Colville Steam Pump Co., St. Louis, Mo.....	L
McCoy & Sanders, Hydraulic tools, New York.....	Ax
Manning, Maxwell & Moore, New York.....	D K
Nye & Palmer, Chicago.....	I P
Pouge, John N., Water column, etc., Cincinnati, O.....	L
Rodgers' Iron Mfg. Co., Fire pumps, Muskegon, Mich.....	I
Reed, H. W., Cypress tank, Waycross, Ga.....	
United States Wind Engine & Pump Co., Batavia, Ill.....	O C
Van Duzen & Tift, Syphons, Cincinnati, O.....	Q
Welle, F. C., Steam pumping engine, Chicago.....	O
Wilbraham Bros, Blower, Philadelphia.....	X
Worthington, H. R., Hydraulic machinery, New York.....	I
Watertown Steam Engine Co., Steam pump, Watertown, N. Y.....	I

**PAINTS, OILS, ETC.—See Varnishes.****RAILWAY SUPPLIES.**

American Railway Construction Co., Monarch track layer, Chicago.....	O C
Atkinson & Co., Chicago.....	B
Bedell, Wm., Automatic ventilator, New York.....	C P
Boston Belting Co., Boston.....	A
Burnett & Clifton, Model of coal chute, Geneseo, Ill.....	
Burnett & Co., Baggage barrows, Cincinnati, O.....	25
Buck, M. M. & Co., St. Louis, Mo.....	B C
Brooks, E. J., Seals, locks, etc., New York.....	S P
Brewster, W. S., Seal and punches, Chicago.....	C
Beadle & Courtney, Registering punch, New York.....	K
Bruson, W. C., Lumber, ties, Chicago.....	A
Courtenay & Trull, Gelatinized fiber, New York.....	F. G
Coulson, Chas. D., Fire brick, Chicago.....	G
Chicago Raw Hide Mfg. Co., Belting, etc., Chicago.....	O
Chicago Perforated Wrapping Paper Co., Chicago.....	N P
Cooper, Hewitt & Co., Iron and Steel, New York.....	Ax
Clark, W. L. & Co., Journal bearings, Webster City, Iowa.....	4
Clinton Wire Cloth Co., Wire goods, Chicago.....	A
Cameron, Amberg & Co., Cabinet letter files, Chicago.....	44
Crocker, L. O., Ticket punches, East Braintree, Mass.....	S P
Chicago Tire and Spring Works, Chicago.....	G
Cowell, E. R. E., Speed indicator, Detroit.....	R

**Railway Supplies—Continued.**

Cliff & Righter Co., Car springs, Oswego, N. Y.....	F
Crerar, Adams & Co., Chicago.....	B O
Clarke, Chas., Car seats, Detroit, Mich.....	15
Dudgeon, R., Hydraulic jacks, New York.....	B
Dunbar, W. O., Speed indicator, Philadelphia.....	15
Dotterer, Samuel H., Perforated iron, Carbondale, Penn.....	23
De Long & French, Packing and hair felt, Allegheny, Pa.....	37
Denver Fire Brick Co., Fire brick, Denver, Col.....	F G
Davis, A. B., Car Spring Co., Philadelphia.....	M
Exhaust Ventilating Co., Fan, Chicago.....	L
Eureka Iron Co., Iron cross tie, Detroit Mich.....	K
Ewald Iron Co., Boiler plate, etc., St. Louis.....	A B
Eureka Cast Steel Co., Chicago.....	C
Edgemoor Iron Co., Steel eye bars, Wilmington, Del.....	
Elkins Mfg. & Gas Co., Ajax metals, Philadelphia.....	C D
Empire Car Roofing Co., Galvanized iron, Chicago.....	E
French, A. & Co., Elliptic springs, Pittsburg, Pa.....	E F
Farist Steel Co., Springs, Bridgeport, Conn.....	F G
Farnham, Wm., Pockets for coaling engines, Elmira, N. Y... Conservatory	
Foster, W. S., Gong bell, Richford, Vt..... Conservatory	
Farrel Foundry & Machine Co., Crane, Ansonia, Conn.....	O C
Flanders, L. B., Machine Co., Shop tools, Philadelphia... ..	A B
Fisher, J. H., Freight door lock, Chicago.....	F G
Goodwin Gas, Stove & Meteor Co., Lanterns, Chicago.....	
Graff, Martin, Grain door, Terre Haute, Ind.....	4
Gates, W. D., Door holder, Chicago.....	
Garey, E. C., Flexible blind, New Yprk.....	29
Hamilton Rubber Co., Trenton, N. J.....	L
Hartford Hammer Co., Hartford, Conn.....	I P
Harvey Bros., Railroad uniforms, Chicago.....	E F
Howell, Martin, A. R., Files, Chicago.....	H
Horton, E. Son & Co., Chucks, Windsor Locks, Conn.....	F
Hussy, Binns & Co., Scoops and shovels, Pittsburg, Pa.....	B C
Hill, W., Conductor's punches, Boston.....	B C
Harris & Carter, Scraper and leveler, Terre Haute, Ind.....	O C
Hunt, G. W., Device for lifting steps, Philadelphia.....	F G
Heywood, Chas. L., Car steps, bridge guard, etc., Boston.....	E
Hunt, Chas. W., Coal handling machinery, New York.....	Ax
Hildreth, J. E., Locomotive lubricator, Wilmington, Del.....	S
Hutchinson Furnace & Smoke Consuming Co., Chicago.....	
Hicks & Smith, Car lamps, New York.....	B C
Hopkins, D. A., Journal bearings, New York..... Conservatory	
Hancock Inspirator Co., Locomotive inspirator, Boston.....	L
Hamilton, J. A., Axle box, New York.....	C P, 79
Harrington & King, Perforated metal, Chicago.....	I

## Railway Supplies — Continued.

Industrial Works, Steam shovel, Bay City, Mich.....	O C
Illinois Iron & Bolt Co., Ratchet jack, Carpenterville, Ill.....	Ax
Imhauser, E., Time detector, New York.....	A
Joyce, Cridland & Co., Ratchet jack, Dayton, Ohio.....	Ax
Johnson, Walter & Co., Door bolt, Detroit, Mich.....	A
Johnson & Hartwell, Sand dryer and door hanger, Chicago.....	G
Jenkins Bros., Rubber packing, valves, etc., New York.....	A B
Jones, Owen H., Car ventilator, Hartford, Conn.....	L
Joliet Steel Co., Chicago.....	Ax
Justice, Philip S. & Co., Hydraulic jacks, Philadelphia.....	
Jones & Laughlin, iron supplies, Chicago.....	
King, A. B., Grain door, Chicago.....	S
Kester, R. L., Acme rod packing, Philadelphia.....	
Kerr, Edwin R., Coal chute, Kewanee, Ill.....	E S
Kauffman, J. H., Heaters, Columbia, Penn.....	E S
Kirkpatrick, D. M., Safety attachment for trucks, <del>Kansas City, Mo.</del> .....	
Link Belt Machinery Co., Chicago.....	
Lyon Mfg. Co., Door check, New York.....	
Lewis & Fowler, Passenger register, etc., Brooklyn, N. Y.....	L
Lawson, Enoch, Steam ringer for bells, San Francisco, Cal.....	
Leroy Journal Bearing Co.....	
Lea, C. G., Spark arrester, Atchison, Kan.....	
McIlvaine, Wm. & Sons, Boiler plate, etc., Reading, Pa.....	F G
Moore, S. H. & E. Y., Trucks, blocks, springs, etc., Chicago.....	E F
Middleton, N. and A. & Co. Philadelphia.....	H
Miller, Metcalf & Parkin, Springs and steel, Pittsburg, Pa.....	F
McCoy, James T., Device to prevent wheels slipping, McCoy, Ind.....	
Miles, D. D., Grain door, Aurora, Ill.....	76
Morris, Theo. W. & Co., Car glass, New York.....	
Morris & McLane, Mail bag crane, Olney, Ill.....	Ax
Meneeley, George R. & Co., Bearings and bronze castings, West Troy, N. Y.....	N P
Midvale Steel Co., Tires, forgings, etc., Philadelphia.....	Ax
March, P. G. & Co., Cincinnati, Ohio.....	A
McPherson, J. G., Sand dryer, Mattoon, Ill.....	S
McMullin, J., Gravel plow, Casey, Iowa.....	S P
Moorhead & Co., Galvanized and plate iron, Pittsburg.....	Ax
New Era Mfg. Co., Grader and ditcher, Chicago.....	O C
Newth, W. H. D., Loco-ash pan, Detroit.....	Ax
National Railway Patent Waste Co., New York.....	Ax
Onslow, A., Journal bearing and dust guard, Jersey City, N. J.....	
Pennock, S. & Sons Co., Road machine and scraper, Ft. Wayne, Ind.....	O C
Pettibone & Mulliken, Chicago.....	O C E
Parsons, J. H., Caboose deck with train indicator, Chicago.....	O C
Pintsch Gas Lighting Co., System for passenger cars, New York.....	Ax

**Railway Supplies—Continued.**

Post & Co., Headlights, lamps, etc., Cincinnati, O.....	O D
Phoenix Steel Wire Broom & Brush Co., Chicago.....	A
Pratt, Elias E., Freight door, Norwood, Mass.....	
Pullman Door Check Co., Door holder, Chicago.....	F
Quitman, F. W., Sash holder and lock, South Norwalk, Conn.....	
Reno Bench Vice Co., Detroit, Mich.....	
Rand, McNally & Co., Maps, ticket cases, etc., Chicago.....	D E
Railway Speed Recorder & Indicator Co., Kansas City, Mo.....	
Scott, Chas., Car Springs, Philadelphia.....	E F
Sterne & Campbell, Spark arrester, Houston, Tex.....	
Stone, R. B., Railroad lumber, Chicago.....	F
Schau & Glynn, Frog foot protector, Kalamazoo, Mich.....	
Scott, J. O., Axle box, Tyler, Texas.....	
Silver Lake Co., Packing, bell cord, etc., Boston, Mass.....	L
Standard Steel Works, Tires, Philadelphia.....	Ax
Thompson & Nathanson, Boring tools, Milwaukee, Wis.....	
Taylor, J. K. Co., Spark arrester, Boston.....	Ax
Thayer, Cargill & Co., Bearings and castings, Chicago.....	B
Underhill, Osborn & Co., Lamps and lanterns, New York.....	A
Union Brass Mfg. Co., Car heaters, etc., Chicago.....	Ax
United States Concave Spring Co., New York.....	F G
Vulcan Iron Works, Steam pile hammer, Chicago.....	S
Van Lieu, D. F., Grain door, Aurora, Ill.....	Ax
Voight, F. F., Tracklaying device, Walla Walla, Washington Ter.....	
Wheeler & Wilson Mfg. Co., Station indicator, Bridgeport, Conn.....	F
Wilson, Evenden & Co., Oil tanks and pumps, Chicago.....	B
Wood, W. D. & Co., Sheet and planished iron, Pittsburg, Pa.....	Ax
Wales Mfg. Co., Fare box, Syracuse, N. Y.....	
Wilcox & Stock, Railway excavator and wrecker, Toledo, Ohio.....	
Whitman & Barnes Mfg. Co., Spring keys, Syracuse, N. Y.....	Ax
Wilson, Walker & Co., Loco-frame and car forgings, Pittsburg, Pa.....	Ax
Walker, M., Fire extinguisher, Port Huron, Mich.....	G
Webster, L. H., Grain door, South Bend, Ind.....	F G
Wilcox, W. W., Baggage checks, punches, etc., Chicago.....	F
Wilcox, Edward M., Grain door, Omaha, Neb.....	
Western Wheel Scraper Co., Plows, Mt. Pleasant, Iowa.....	
Yale Lock Mfg. Co., Locks and seals, Stamford, Conn.....	I K
Yocum & Dakin, tiles and piling, St. Louis, Mo.....	O C
York Mfg. Co., Scrapers and levelers, Portsmouth, Ohio.....	

**ROCK CRUSHERS.**

Blake Crusher Co., New Haven, Conn.....	S
Fraser & Chalmers, Chicago.....	S
Gates Iron Works, Chicago.....	L
Totten & Co., Pittsburg, Pa.....	S

**STEAM ENGINE SUPPLIES.**

American Tube Works, Injectors, etc., Boston.....	D E
Allison, W. C., Welded flues, Philadelphia.....	F G
Ashton Valve Co., Valves, Boston.....	I
Beaumont, R., Stop valve, Kankakee, Ill.....	R
Butman Furnace Co., Grates, flues, etc., Cleveland, Ohio.....	Ax
Baragwanath, Wm., Steam jacket heater, Chicago.....	I
Boston Belting Co., Packing, hose, etc., Boston.....	
Carpenter, G. B. & Co., Asbestos, packing, etc., Chicago.....	Ax
Clow, James B. & Son, Engine trimmings, etc., Chicago.....	C D
Chalmers-Spence Co., Covering for boilers, New York.....	
Curtis Regulator Co., Pressure regulator, Boston.....	K
Chicago Metallic Packing Co., Chicago.....	K
Detroit Lubricator Co., Light feed cups, Detroit.....	
Elmira Steam Engine Co., Automatic lubricators, Elmira, N. Y.....	N
Hotchkiss, J. F., Boiler cleaner, New York.....	S
Goodell, H. C., Boiler covering, Chicago.....	
Hawley, F. W., Valve, Rochester, N. Y.....	
Ferris, J. H., Socket wrench, Chicago.....	R
Kester, R. L., Rod packing, Philadelphia.....	
Kunkle, E. B., Lock-up valve, Ft. Wayne, Ind.....	
Loneragan, J. E., Cups, lubricators, Philadelphia.....	L
Marsh, Jas., Gauges and test pumps, Chicago.....	F G
Merriam, T. & J., Pipe covering, Milwaukee, Wis.....	
Manning, Maxwell & Moore, Gauges, etc., New York.....	D K
Magoon Heater Co., Muskegon, Mich.....	
Nathan & Dreyfus, Injectors, valves, etc., New York.....	D E
National Tube Works, Boston.....	K L
Newcomb, W. W., Link rod, Bradfordville, Ky.....	
Purves, Thos C., Gauge, boiler cleaner, Chicago.....	
Parks, N. C., Lubricating pad, New York.....	75
Reaser, W. J., Slide valves, Madison, Wis.....	
Richardson, F. W., Valve motion model, Troy, N. Y.....	
Ryan, J. J., Bearings, brasses, etc., Chicago.....	Ax
Riley, J. M., Boiler covering, Troy, N. Y.....	
Sargent, Greenleaf & Brooks, Pipes, ventilators, etc., Chicago.....	L S
Schutte & Goehring, Injectors, condensers, etc., Philadelphia.....	Ax
Shields & Brown, Pipe and boiler covering, Chicago.....	Ax
Shelley, G., Grate, Wilkesbarre, Pa.....	
United States Metallic Packing Co., Philadelphia.....	R
Winona Machinery Co., Cylinder packing, bearings, Winona, Minn.....	B

**SCALES.**

Borden, Selleck & Co., Chicago.....	Ax
Chicago Scale Co., Chicago.....	Ax
Fairbanks, Morse & Co., Chicago.....	K

**SIGNALS, ELECTRIC AND OTHERWISE.**

American Pneumatic Signal Co., Boston.....	W S
American Electric Railroad Signal Co., Boston.....	11
Blodgett Bros. & Co., Electric Signals, clocks, etc., Boston .....	
Crandell & Strohm, Electric block signal, Philadelphia.....	E S
Electric Railway Signal & Obviating Accident Co., Chicago.....	
Grant, Wm., Semaphore and switch signal Elkhart, Ind.....	O C
Gibbon, T. H., Automatic long distance signal, Albany, N. Y.....	82
Garsed, R. P., Pneumatic switch and signal, Philadelphia.....	S P
Hall Railway Signal Co., Electric signals, Meriden, Conn.....	O C
Ireland, B. B., Block and switch signal, Trenton, N. J.....	10
Markley, A. J., Train signal and lamp, Albion, Ind.....	
McLeod Alr R. R. Signal Co., Alr block and crossing signal, Boston, Mass.	
Schooley, J. D. & W. C., Fog signals, Braddock, Pa .....	
Trites, John S., Signal and semaphore, Moncton, N. B.....	C P
Union Switch & Signal Co., Electric signals, Pittsburg, Pa.....	

**SNOW PLOWS.**

Ayers, J. H., Snow plow model, Wade, Kan.....	C P
Gunther, Geo. A., Snow plow model, Brooklyn, N. Y.....	S P
Green, N. S., Lockwood, Mo.....	
Hainsworth, F. & Son., Snow plow, Chicago.....	
Hawley Steam Snow Excavator Co., Rochester, N. Y.....	
Muskegon Car & Engine Co., Snow plow, flange cleaner, etc., Muskegon	
Mich.....	O C
Stock, H. T., Snow plow Toledo, Ohio .....	Ax

**STOVES AND HEATERS.**

Baker, Smith & Co., Chicago.....	Ax
Biesell & Co., Pittsburg, Penn .....	Ax
Brainard, A. M., Gas stove for dining cars, Chicago .....	
Collins & Burgie, Chicago.....	Ax
Herr, A. W., Chicago .....	
Reese Safety Stove Car Co., Pittsburg, Pa.....	A
Salmon Water & Steam Heater Co., Boston.....	A
Spear, James, Philadelphia .....	F G
Wilks, Stephen, Dining car ranges, Chicago.....	A
Winslow, A. P. & Co., Cleveland, Ohio.....	

**TURNTABLES.**

Lowthrop, F. C., Turntable model, Trenton, N. J.....	S P
Stock, H. T., Toledo, Ohio .....	Ax

**TRACKLAYING MACHINES.**

American Railway Construction Co., "The Monarch," Chicago.....	
Michelson, Albert, "The Monarch," Chicago.....	

**TRACK TOOLS AND MATERIAL.**

American Railroad Joint Co., Boston.....	H
Bell & Seely, Tie and track, Toledo, O.....	2
Bush, T. J., Interlocking bolts, New York.....	O C
Beeman, M. M., Nut lock, Syracuse, N. Y.....	8
Bucyrus Foundry & Manufacturing Co., Bucyrus, O.....	Ax
Clark, Joseph, Track joint and chair, Brooklyn, N. Y.....	74
Cuddy, Wm. S., Nuts and washers, St. Louis, Mo.....	C
Clark, A. R., Nut lock, Amite City, La.....	1
Cambria Iron Co., Rails, bolts, etc., Johnstown, Pa.....	Ax
Carnegie Bros. & Co., Steel rails, Pittsburg, Pa.....	Ax
Campbell, A. H., Metal railroad tie, Liberty, Ind.....	76
Cleveland Rolling Mill Co., Steel rails, etc., Cleveland, Ohio.....	Ax
Fisher & Norris, Rail joints and ties, Trenton, N. J.....	G
Grisham, W. M., Nut lock, Winchester, Ill.....	40
Gould, W. F., Rail joint, Stuart, Iowa.....	1
Hoopers & Townsend, Bolts, nuts, etc., Philadelphia.....	D E
Hodgson, G. N., Rail joint supporter, Nashua, N. H.....	G
Kelly, Richard A., Nut lock, Canton, O.....	19
Lalanc & Grosjean Manufacturing Co., Spike extractor, New York.....	A
Mercer Nut Lock Co., West Chester, Pa.....	A
Metcalf, Paul & Co., Track tools, Pittsburg, Pa.....	F
Maharin, Wm. J., Spikes, New York.....	G
Murphy, F., Nut locks, Chicago.....	80
Mark, C. E., Chair, Flint, Mich.....	C P
North Chicago Rolling Mill Co., Steel rails, etc., Chicago.....	Ax
National Railroad Supply Co., Track joint, Des Moines, Iowa.....	F G
Philadelphia & Reading R. R. Co., Nut lock, Philadelphia, Pa.....	S P
Pennsylvania Bolt & Nut Co., Lebanon, Pa.....	E F
Pratt Manufacturing Co., Washers, Naugatuck, Conn.....	
Perkins Railroad Chair Co., Portsmouth, N. H.....	C P
Reese, Henry, Metallic tie, Baltimore, Md.....	
Ruffner, Dunn & Co., Nut lock, fish plate, etc., Philadelphia.....	9
Rockport Railway Gauge Co., Track gauge, Rockport, Mass.....	1
Sherman & Burton, Nut lock, Cleveland, O.....	29
Standard Joint Co., Chicago.....	C
Sellers, Morris & Co., Splice bars, etc., Chicago.....	E
Shoudy, Geo. A., Track jack, Rockford, Ill.....	17
Standard Nut Co., Washers, etc., Pittsburg, Pa.....	N P
Sutch, J. B., Nut lock, Pittsburg, Pa.....	44
Tobey, E. H., Wrought iron tie and rail fastener, Denver, Col.....	E H
Vulcanized Fiber Co., Fiber washers, etc., Wilmington, Del.....	F G
Van Kuran Elastic Nut Lock Washer Co., Omaha, Neb.....	2
Warren, A., Track drill, jacks, St. Louis, Mo.....	Foot of Ave. D
Withers, J. E., Nut lock, Henderson, Ky.....	24
Yocum & Dakin, Ties and piling, St. Louis, Mo.....	O C

**TESTING MACHINES.**

Fairbanks, Morse & Co., Chicago.....	K L
Olson, Tinius & Co., Philadelphia.....	M N
Richle Bros., Philadelphia.....	
Yale Lock Mfg. Co., Stamford, Conn.....	I K

**VENEERS AND WOODS.**

Albro & Co., E. D., Cincinnati, Ohio.....	G
Gardner & Co., New York.....	D E

**VARNISHES, PAINTS, OILS, ETC.**

Bridgeport Wood Finishing Co., New York.....	F G
Billings, Taylor & Co., Cleveland, Ohio.....	B
Bigelow, Moses & Co., Newark, New Jersey.....	45
Berry Bros., Detroit, Mich.....	B C
Brunson, W. C., Fire proof paint, Chicago.....	A
Chicago Varnish Co., Chicago.....	D G
Cary, Ogden & Parker, Chicago.....	G
Devoe, F. W. & Co., New York.....	B C
Elmendorf, Wm. A., Chicago.....	D
Heath & Milligan Mfg. Co., Chicago.....	E
Johns, H. W. Mfg. Co., New York.....	C D
Murphy & Co., New York and Cleveland...	B C
Masury, John W. & Son, New York.....	40
O'Brien Electric Priming Co., South Bend Ind.....	C P
Pratt & Lambert, New York.....	A
Palace Method Paint Co., New York.....	S P
Valentino & Co., New York.....	A B

**WINDMILLS AND TANKS—See Pumps.**

**WHEELS, CAR AND LOCOMOTIVE.**

Allston Car Wheel Co., Allston, Mass.....	B
Allen Paper Car Wheel Co., New York and Pullman.....	Ax
Allen, R. N., Cleveland, O.....	Ax
Bass Foundry & Machine Works, Chicago and Ft. Wayne....	Ax
Bowler & Co., Cleveland, O.....	I
Baltimore Car Wheel Co., Street car wheels, Baltimore, Md.....	W S
Brooks, A. A., Eau Claire, Wis.....	78
Baldwin & Boss, Kansas City, Mo.....	
Boston Standard Wheel Co., Cambridgeport, Mass.....	Ax
Detroit Car Wheel Co., Detroit.....	Ax
Griffin Car Wheel Co., Detroit, Mich.....	B
Milwaukee Elastic Steel Car Wheel Co., Chicago.....	H
Mace, H. A., Scranton, Pa.....	64
Paige Car Wheel Co., Cleveland, O.....	Ax
Rampo Wheel and Foundry Co., Rampo, N. Y.....	I



**Wheels, Car and Locomotive—Continued.**

Smith, R. McD., Louisiana, Mo.....	78
St. Charles Car Co., St. Charles, Mo.....	W 8
Thatcher, G. H. & Co., Albany, N. Y.....	AX
Whitney & Sons, Philadelphia.....	AX
Washburne Car Wheel Co., Worcester, Mass.....	AX

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Can now avoid the dangers of transporting Dynamite, by transporting the materials out of which an explosive, stronger than No. 1 Dynamite, can be made. These materials are decidedly inexplusive under any and all circumstances. They do not contain a particle of glycerine, nitro-glycerine or gun cotton in any form or under any color.

The public should understand that it **does not** freeze in cold climates, consequently the accidents incident to the thawing of dynamite are avoided.

The manufacturers now offer it to the public with entire confidence as being a safer and decidedly cheaper powder to use than any other, and that by its use railroad work can be expedited, and it is sent by express or freight like ordinary merchandise.

### REFERENCES.

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Longdale, Va.

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**LOCOMOTIVE TIRES,**  
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**STEAMBOAT SHAFTS AND STEEL FORGINGS**

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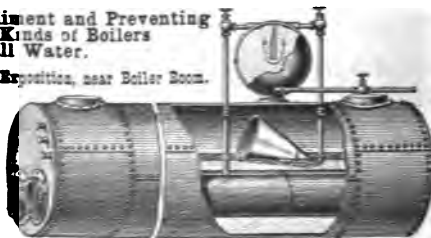
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**Hotchkiss MECHANICAL Boiler**  
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For Removing Sediment and Preventing  
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and all Water.

See Exhibit at Chicago Exposition, near Boiler Room.

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**BELGIUM.**

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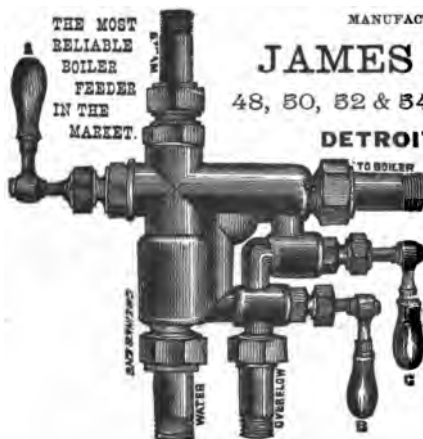
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the only truly Elastic Car Wheel  
in the World.**

The principal parts of the MILWAUKEE ELASTIC STEEL WHEEL consist of a rolled crucible steel tire, Bessemer steel spokes, of which there are twelve in number, and two plates or half hubs, which are made of cast iron. The inner side of the periphery of the tire is provided with a series of holes for the reception of the projections of the spokes, which enter the tire to the depth of one-fourth of an inch. The spokes are made from flat bars of Bessemer steel of a particular grade, uniting the greatest possible degree of crushing force with a sufficient amount of tensile strength and elasticity. These bars, cut to a suitable length, have at one end the projections to fit the holes in the inner rim of the tire, while the other end is cut away at its edges, so as to form substantially in each case the sector of a circle. At a distance of two inches from the rim the spoke is twisted a quarter turn, the twist occupying a length of two and one-half inches, placing the planes of the two sections of the spoke at right angles to each other, and forming a shoulder on both sides.

The tapered inner ends fit together like the sectors of a circle, and form a flat, even surface on the opposite sides. The spokes being thus assembled and placed, a mandrel, tapering in shape is forced through the opening at a hydraulic pressure of from sixty to one hundred tons. By this enormous force each spoke is driven outwardly and seated firmly against the rim. The shoulders of the spokes are then cut away so as to present perfectly circular bearing seats on both sides. The hub-plates are then placed over the mandrel and by further hydraulic pressure forced to their right position within the circular bearing seats. Resting against the shoulders of the spokes, they operate to hold the latter inflexibly in the position to which they have been driven. Holes are bored through the hub-plates and spokes, and the spokes are secured in place and to the hub-plates by bolts, which are riveted. When the hub-plates have been bolted in place the mandrel is removed, and the centre opening which furnishes the axle bearing, is reamed out to the suitable size to receive the axle, and the wheel is then pressed on the axle, completing it ready for use.

ESTABLISHED 1853.

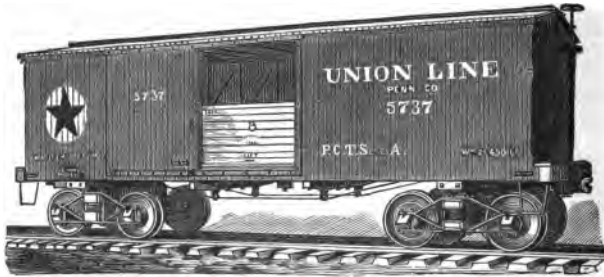
# HOLBROOK & CO. HARDWOOD LUMBER AND TIMBER

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Warehouse, Car and Bridge Material in our line Furnished  
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ULSTER, STAY-BOLT IRON,  
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 Tank and Heavy Sheet Iron, Extra Boiler Stay Iron,  
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 Stack and Sheet Rivets, ALL SPECIAL GOODS.

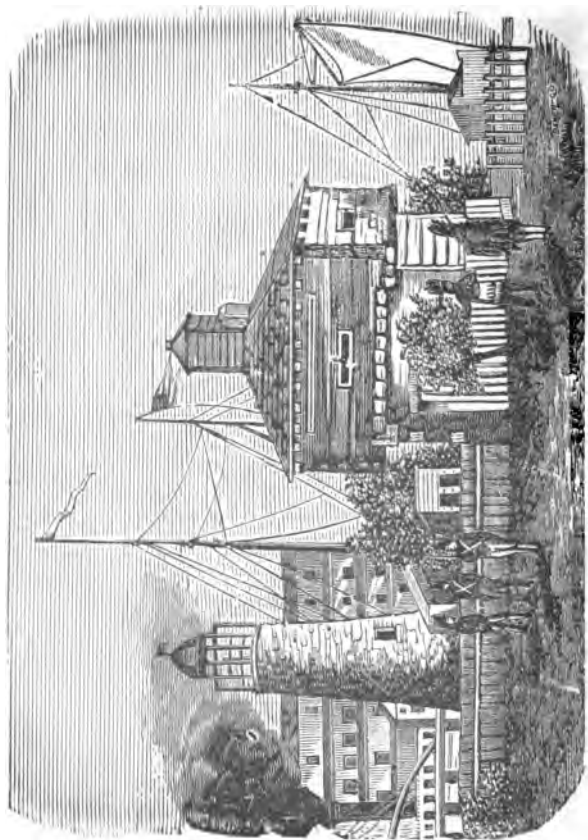
**Full Assortment kept in Stock.**

# CHICAGO.

## **Historical Sketch.**

In 1801, a swamp: in 1811, a small military post, soon to be abandoned and to be the scene of a terrible Indian massacre: in 1821, again an insignificant military station: in 1831, a village of twelve houses, without mail routes, post roads or post office: in 1841, an incorporated city, with 5,752 inhabitants, and an export trade amounting to \$328,635: in 1851, rapidly assuming commercial importance; on the eve of possessing railway communication with New York; its grain shipments increased to 4,646,881 bushels; its population numbering 34,437: in 1861, its grain, pork and lumber interests all enormously developed; its population almost quadrupled, and its shipments of breadstuffs increased tenfold within a single decade: in 1871, rich, proud and magnificent; bidding fair to outstrip the most famous commercial cities of either the old or new world; but suddenly, on that memorable October night, almost swept out of existence, only to rise triumphantly from its ashes in more than its former splendor, a monument of indomitable spirit and energy: in 1881, the greatest railroad centre, live-stock market and primary grain port in the world; the scene of the ceaseless activities of half a million of eager, restless toilers, attracted by its fame from far and near: and in 1883 still advancing, with rapid strides, in everything that distinguishes a great metropolitan city: such, in brief, is the history of Chicago, the Garden City, the Phoenix City of America, the capital of the wealth-producing West.

The growth of Chicago has throughout been coincident with the development and prosperity of the Western States and Territories. Of Illinois and Iowa especially may it be said to have grown with their growth and strengthened with their



FORT DEARBORN, IN 1830.

strength. Young as is Chicago, it was not until after its incorporation as a city that what is now the great State of Iowa received even a Territorial organization; while it was only in 1818 that Illinois, now leading all the other States in cereal productions and mileage of railroads, and even ranking fourth in manufactures, was admitted into the Union, with a population of about 30,000, mainly settled in the southern part of the State.

### **Location, Climate, Population, Etc.**

Chicago is situated on the west shore of Lake Michigan; in 41° 52' N. lat. and 87° 35' W. long.; 854 miles from Baltimore, the nearest point on the Atlantic seaboard, and 2,417 miles from San Francisco. Its mean elevation is 75 feet above Lake Michigan, or 591 feet above mean sea-level.

The observations of the Signal Service Office, Jan. 1, 1872, to Dec. 31, 1882, show the mean barometric pressure during that period to have been 29.803 inches (corrected for temperature, but not reduced to sea-level); the mean annual temperature, 49.06°; the mean annual precipitation, 36.64 inches; and the mean annual humidity of the air, 70.9, 100 representing complete saturation. The maximum annual precipitation was 44.18 inches, in 1881; the minimum, 27.37 inches, in 1872. The highest mean annual temperature was that of 1878, 51.40°; the lowest that of 1875, 45.42°.

The climate is healthful and invigorating, although the winters are cold and the temperature in summer is liable to great and sudden changes. The deaths in 1882 numbered 13,234, equal to 23.6 per thousand. The death rate for the last eight years has averaged 20.2, having been as low as 16.5 in 1878 and 17.2 in 1879, a record almost without parallel in the experience of large cities.

The population of the City in June, 1882, was 560,693, in which were included 5,812 colored persons and 349 Chinese. All the great European States are largely represented, nearly one-half of the inhabitants being of foreign birth. In 1880, Cook county, five-sixths of whose population reside within the City limits, numbered among its foreign-born inhabitants—



93,699 Germans, 50,905 Irish, 28,852 Scandinavians, 21,250 English and Scotch, 14,960 Canadians and 12,097 Bohemians.

### **The Municipality.**

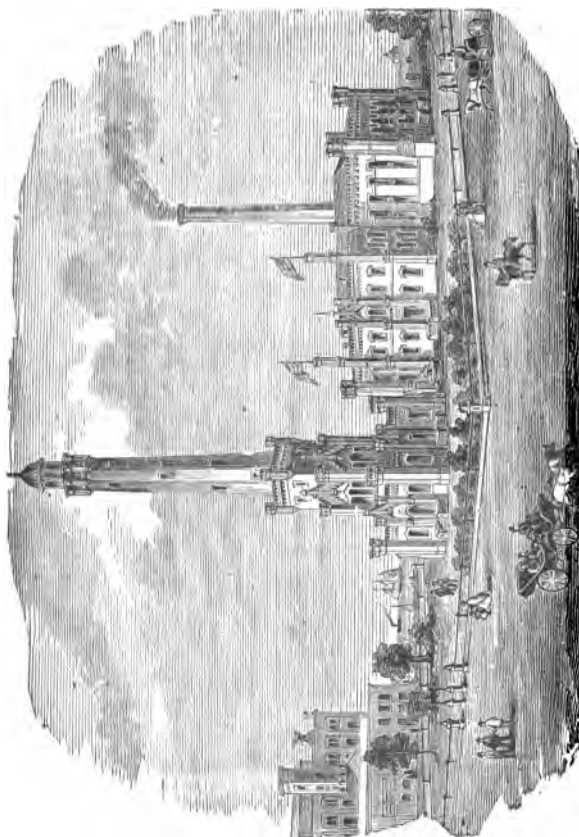
The area of the City is 23,040 acres, or 36 square miles, divided by the Chicago river and its branches into three sections, known as the North, South and West Divisions, or, more popularly, Sides. These are connected by 34 swing-bridges and two tunnels, the latter at Washington and La Salle streets.

There are 651 miles of streets, with a total area of 5,200 acres; and 51 miles of drives, within the City limits. [See Parks and Boulevards.]

The Fire Department, one of the most efficient in the world, possesses 32 steam fire-engines, 4 chemical engines, 9 hook and ladder trucks, and 185 horses, with a staff of 375 men. By the Fire Alarm Telegraph System, established at a cost of a quarter of a million dollars, an alarm can be instantaneously flashed to the nearest station from any part of the City. Strangers can not remain long in the City without having an opportunity of judging of the efficiency of the Fire Department, there being on an average three fires a day. With such alacrity are the alarms responded to, that the loss occasioned by the 981 actual fires of 1882 was only \$569,885, an average loss of but \$581. The cost of the Department in 1882 was \$545,021. It has an adjunct of considerable importance in the Fire Insurance Patrol, established in 1871 by the underwriters of the City, and an organization admirably equipped and highly efficient.

The police force consists of 557 men, a much smaller number in proportion to the population and the amount of crime than is usually considered necessary. The numerical weakness of the force is to some extent made up for by the use of the telegraph and the patrol wagon. There were 32,800 arrests made in 1882. The cost of the department was \$659,493.

Chicago deriving its water supply from Lake Michigan, the disposal of the drainage of the City was a serious and perplexing problem until, by a triumph of engineering skill, the current of the Chicago river was reversed, and the stream made



**NORTH DIVISION WATER WORKS AND TOWER, CORNER OF CHICAGO AVENUE AND PINE STREET.**

to run *out of* Lake Michigan into the Illinois and Michigan canal, and thence through the Illinois river to the Mississippi.

The total income of the City for 1882 was \$8,605,507; the amount of its bonded debt, December 30, \$12,752,000; the valuation of the City estate, including uncollected taxes, \$21,061,640.

### **The Water Works.**

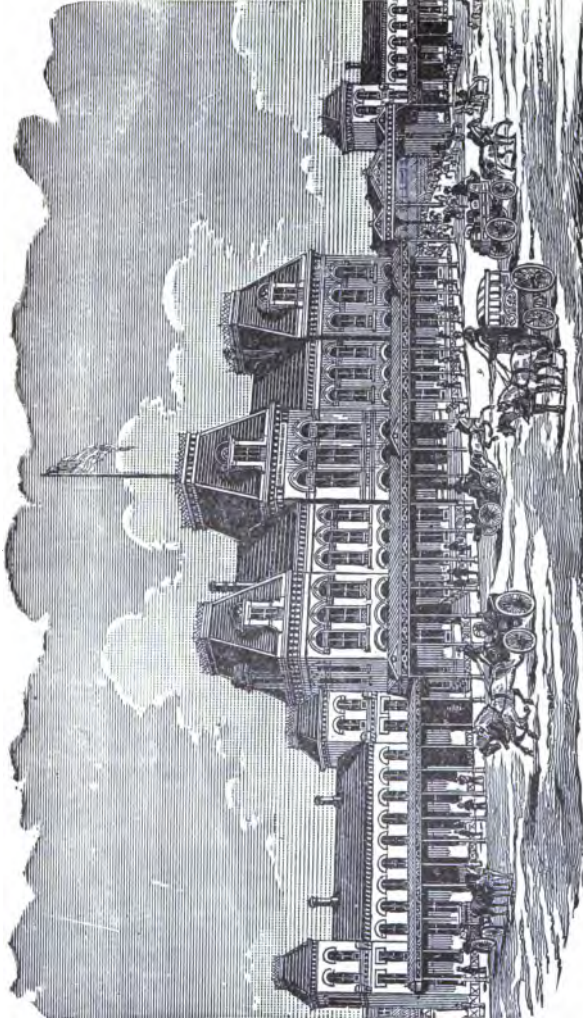
Foremost among the public works of Chicago is the costly and unique contrivance by which it draws its supply of water from the lake. Two miles from the shore there is fixed a substantial floating structure, known, for want of a better name, as the "Crib," within which is an iron cylinder, 9 feet in diameter, going down 31 feet below the bottom of the lake, and connecting with two distinct tunnels, leading to separate pumping works on shore. The tunnel first constructed, communicating with the pumping works at the foot of Chicago avenue [Q 7], is five feet in diameter; the second tunnel, conveying water to the West Side works, at the corner of Blue Island avenue and Twenty-second street [I 17], is 7 feet in diameter and six miles in length. At the shore end of each tunnel the water is forced by enormous engines to the top of a lofty tower, from which its own weight distributes it through the City. The quantity consumed by the City in 1882 was 24,150,000,000 gallons, averaging upwards of 66,000,000 gallons per day. The Water estate is valued at \$9,353,314, and the collections in 1882 were \$1,050,034.

The North Side works may be visited at the same time as Lincoln Park and the Lake Shore Drive. [See Parks and Boulevards.] The tower [175 ft.] affords one of the finest views of the City and harbor. Its ascent is safe and easy. The key can be obtained from the engineer.

The West Side works are in the Lumber District. They may be reached by the Blue Island avenue (Western avenue) cars, from Madison street.

### **Railroads and Depots.**

Chicago is the centre of 23,000 miles of railroad. Six terminal depots accommodate the trains of 18 different com-



UNION DEPOT, CORNER OF CANAL AND ADAMS STREETS.

panies, and there are 28 other stations within the City limits, for the convenience of local passengers. The Union Depot, Canal street [M 11], used by the Pittsburg, Ft. Wayne and Chicago, the Chicago, Burlington and Quincy, and other railroads; the depot of the Michigan Southern and Rock Island roads, Van Buren street [O 13]; and that of the Chicago and North-Western, Wells and Kinzie streets [N 9], are among the most prominent buildings in the City.

The first named is one of the largest and finest railroad depots in the world. Fronting on Canal street, and extending from West Madison street to West Adams street, a distance of 1,200 feet, it occupies four entire blocks. Alighting under cover, passengers enter the lofty, commodious and richly decorated ticket office, from which they pass either to the platforms or to any of the waiting-rooms, retiring-rooms or restaurants with which this model depot is provided.

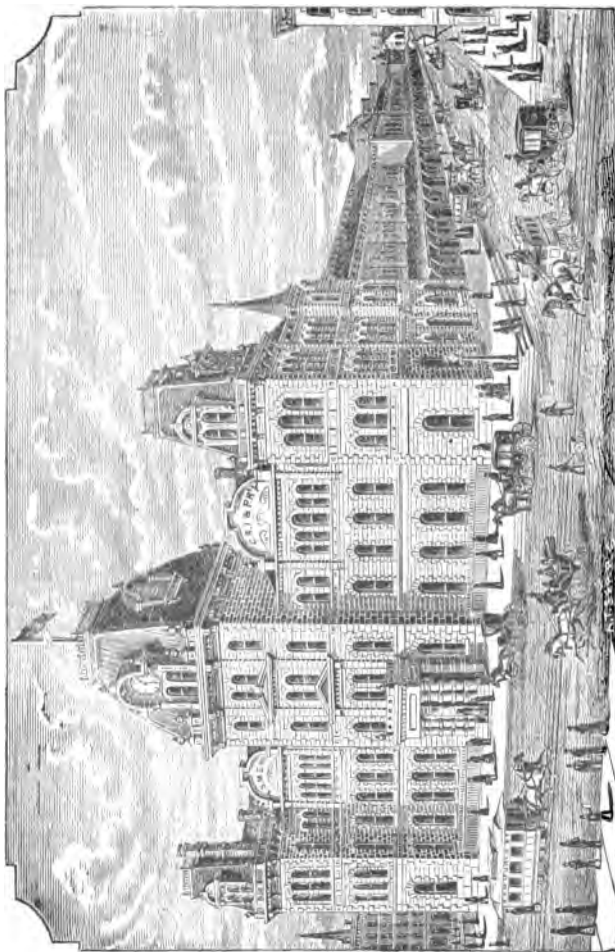
### **Street Cars, Hacks, Etc.**

Chicago possesses one of the most complete systems of street railways in the world, being literally gridironed with their tracks. The three divisions of the City are operated by separate companies. The cars are used by about 200,000 persons a day. The fare is five cents.

The North Chicago City Railway Company has 31 miles of track, and owns 100 summer cars, 150 box cars and 1,250 horses. It carried in 1882, 16,338,594 passengers, an average of 44,763 a day.

The company operating the West Division has 35 miles of track. Its equipment is 156 summer cars, 362 box cars and 2,700 horses. Its cars traveled, in 1882, 6,710,760 miles.

The South Side is operated by the Chicago City Railway Company, which has, to a large extent, dispensed with the use of horses by the adoption of the Cable System. Every ordinary car or train of cars has attached to it a "grip-car," containing an arrangement for "gripping" an underground wire cable kept in motion by powerful engines located at the corner of State and Twenty-first streets. Since the opening of the first section, in the early part of 1882, many fatal accidents



DEPOT L. S. & M. S. AND C., R. I. & P. RY'S, VAN BUREN ST., WEST OF CLARK.

have occurred by persons being run over, and many vexatious delays have been occasioned by the breakage of the cable or by the driver losing his grip. On the whole, however, the system may be pronounced a success. It is daily doing the work of 880 horses, and is carrying 2,000,000 passengers a month.

Strangers will do well to remember that throughout the City cars will stop only at the farther side of street crossings, except in the middle of long blocks, where stopping places are indicated by signs.

Omnibuses meet all the important trains at the terminal



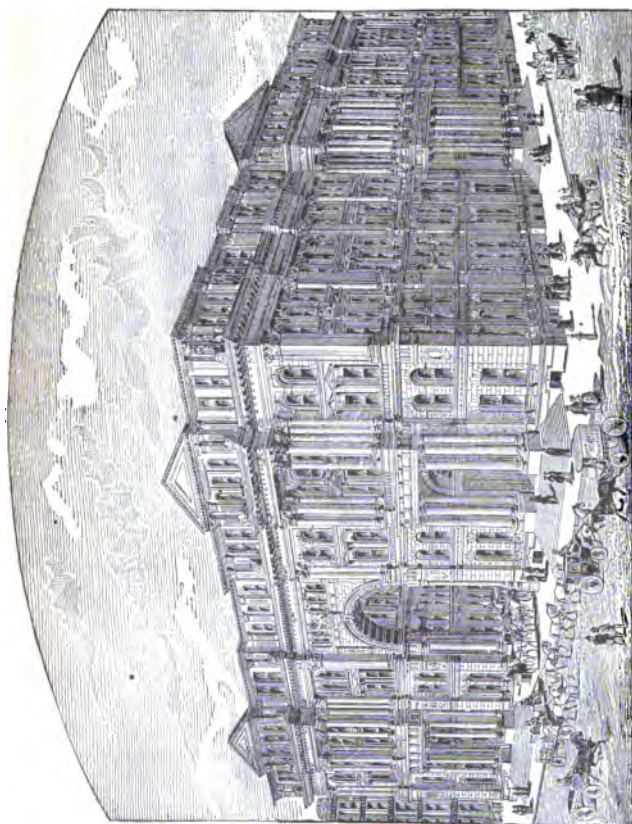
C. & N. W. RY. DEPOT, COR. WELLS AND KINZIE STREETS.

depots, to transfer passengers from one depot to another, or to convey them to the hotels. Fare 50 cents.

Carriages may be ordered at any of the principal hotels.

### **Public Buildings.**

The principal public buildings are the Court House and City Hall, the Post Office and Custom House, the Inter-State Exposition Building, the Chamber of Commerce, the Criminal Court and Jail, the First National Bank [see *The Banks*], the Chicago University [see *Educational Institutions*], and the Cook County Hospital and neighboring Medical Colleges.



COUNTY COURT HOUSE AND CITY HALL, CLARK AND WASHINGTON STREETS.



### **Court House and City Hall.**

This magnificent twin-building, the largest and most imposing of the public edifices of Chicago, is one of the finest structures devoted to county and municipal purposes in the world. It occupies an entire square [O 11], bounded east and west by Clark and La Salle streets, and north and south by Randolph and Washington streets. In style a free treatment of the French renaissance, it is built of Upper Silurian limestone, quarried mainly along the Desplaines river in this State, and adorned with massive columns of the finest granite. The length of each of the two façades is 340 feet, the width of the entire building 280 feet, and its height from the ground line 124 feet. The eastern half, fronting on Clark street, is occupied by the various officials of Cook county, who are located in spacious and elegant apartments; the rooms devoted to the administration of justice being models of court-room convenience.

The completion of the western half, or City Hall, has been much hindered by the fact that the legal limit of taxation, 2 per cent., is too low to admit of any considerable amount of money being devoted to building purposes. It is, however, probable that, either by special legislation or in some other way, the means necessary to its completion will very shortly be made available. The amount required to make the building ready for occupation is about \$570,000, the expenditure of which will raise the cost of the entire edifice to about \$4,400,000.

### **Post Office and Custom House.**

Next to the County Court House and City Hall, the finest and most important public building is the United States Post Office and Custom House, situated on Clark and Dearborn streets, between Adams and Jackson streets [O 12]. It is one of the largest buildings of its kind in the country, being 342 feet long by 210 feet in width. The handsome interior court, 198 feet by 83 feet, open to the roof, with the whole of the rooms on the first floor, and the entire basement, is occupied by the Post Office department. The amount of business trans-

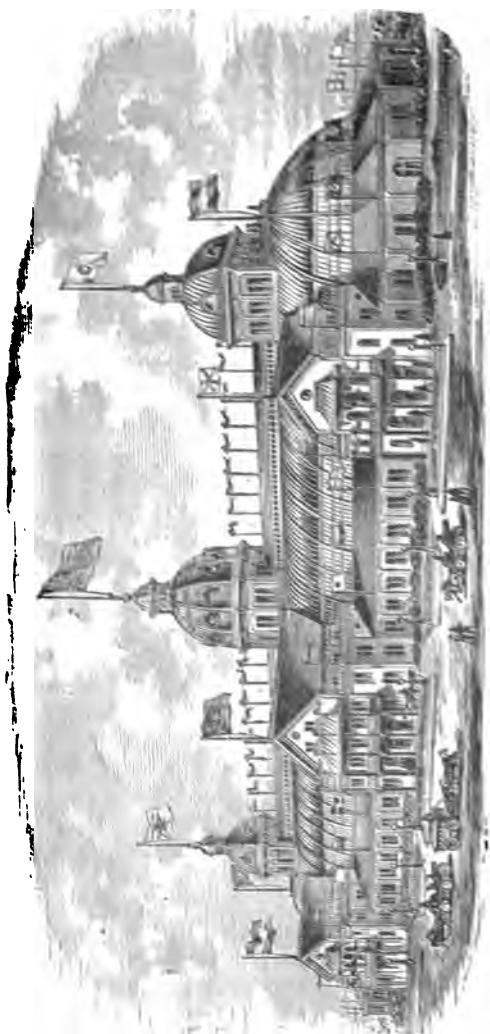


POST OFFICE AND CUSTOM HOUSE, CLARK AND JACKSON STREETS.

acted annually by this department is immense. In 1882 its receipts were \$1,877,251, and the total number of pieces of mail matter delivered within the City limits by the 221 carriers, during the last fiscal year, was no less than 114,832,000. The second and third floor offices are occupied by the Customs, Internal Revenue, Sub-Treasury, Pension and Interior departments. During 1882 duties to the amount of \$3,696,711 were collected by the Customs, on merchandise valued at \$7,904,681. The internal revenue collections for the same period amounted to \$9,579,497, of which sum \$7,612,688 represented beer and spirit stamps, and \$1,637,932 cigars and tobacco. The entire cost of the commodious and elegant building devoted to these various purposes was about \$6,000,000.

### **The Inter-State Exposition Building.**

There is probably no other building in Chicago with whose name strangers are so familiar as with that of the structure popularly known as the Chicago Exposition [P 12]. The largest building in the world whose roof is unsupported by pillars; occupying a commanding position on the Lake Front; built after the model of the famous exposition building at Vienna, in the short space of ninety-six days; it has been rendered still more remarkable by the many important purposes for which it has been used. The place of meeting of the memorable Republican Convention of 1880, the assembly hall of the Musical Festival of 1882, and, above all, the home of those exhibitions of the industrial, scientific and artistic productions of the Northwest which annually attract so many thousands of visitors to this great City, its name has become a household word throughout the West, even with thousands who have never seen it. Nearly 800 feet in length by 240 feet in width, 110 feet high, and with three lofty towers, its magnificent proportions excite universal admiration. These, however, are far less worthy of attention than is its remarkable adaptation to those great purposes for which it was erected, the facilities afforded for the advantageous display of every class of exhibits being almost unequalled.



INTER-STATE INDUSTRIAL EXPOSITION BUILDING, MICHIGAN AVENUE AND ADAMS STREET.

**Parks and Boulevards.**

The park and boulevard system of Chicago is one of the most extensive in the world. When completed, it will encompass the city on three sides, forming a series of drives almost



SCENE IN GARFIELD PARK.

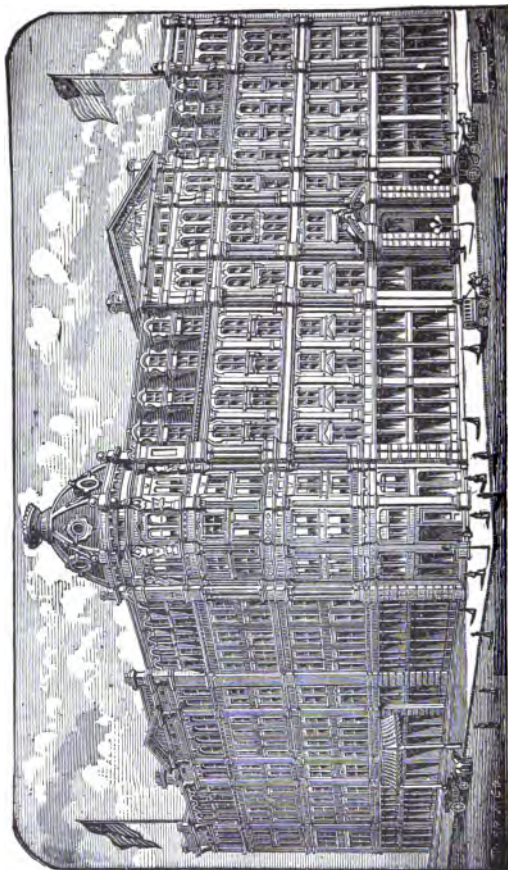
unrivalled. The visitor who would see something of its extent and varied attractions will have to make separate journeys to the north, west and south limits of the City, several important links in the chain having yet to be made.

Lincoln Park, covering, as extended, an area of 310 acres, is in the North Division, on the Lake Shore. Among its

approaches from the south is the Lake Shore Drive, a fine boulevard, commencing near the North Division Waterworks [Q 7]. Lincoln Park has some beautiful drives, walks, miniature lakes, rustic bridges, groves and grottoes; also a conservatory, and a very respectable zoological collection. It is the most popular of the City parks, and the one to be seen by visitors whose time is limited. It can be reached by street cars from the corner of State and Lake streets, but to drive by carriage will enable the visitor to see the Criminal Court and Jail, the rooms of the Chicago Historical Society (corner of Dearborn avenue and Ontario street), the Roman Catholic Cathedral [see Churches], and the Waterworks [page 11], en route, besides approaching the Park by the Lake Shore Drive.

The West Side parks belonging to the great encircling system [see Map] are Douglas Park, 185 acres, reached by Ogden avenue cars; Garfield (formerly Central) Park, 185 acres, intersected by the W. Madison street railway; and Humboldt Park, 225 acres; the three connected by completed boulevards. These parks are all laid out with great taste and skill. They are four miles from the Court House, and a considerable distance from any thickly settled quarter of the City; but the 300,000 residents of the West Side have other parks, effectively performing, in densely populated districts, the functions of lungs of the City. These are Union [I 11], Jefferson [J 12], and Vernon [J 14], aggregating only about 32 acres, but made very attractive by a judicious outlay of money and the skill of an accomplished landscape gardener. Visitors to the West Side parks will do well to see the Cook County Hospital and the neighboring medical colleges [pp. 22, 27] at the same time.

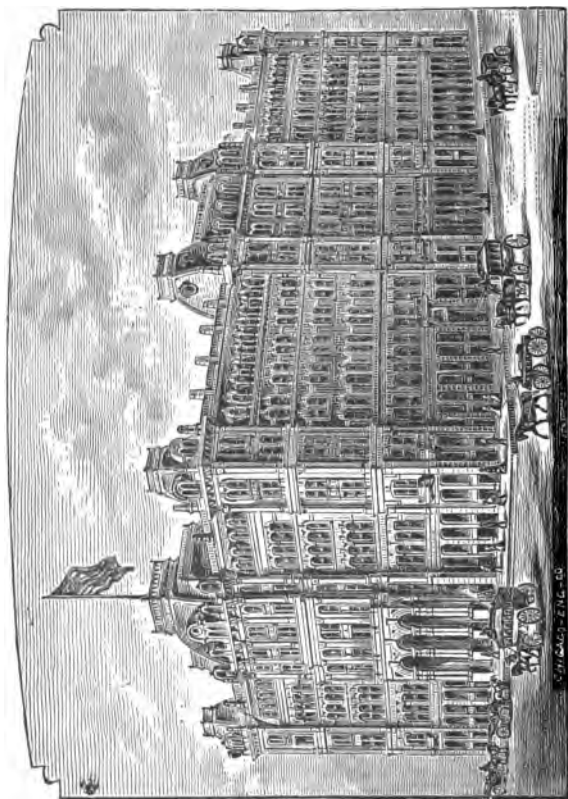
The South Parks are approached by the most beautiful boulevard in the city, Michigan avenue. Starting from the Exposition Building, the visitor passes the Leland Hotel and the College of Pharmacy on the right, the latter at the corner of Van Buren street. On his left, the green expanse of Lake Park stretches out almost to the edge of the lake, from which it is separated only by the track of the Illinois Central Rail-



PALMER HOUSE, CORNER OF STATE AND MONROE STREETS.

road. Away out are the light-house, the breakwaters and crib [see Waterworks]; and the surface of the lake is dotted with the white sails of innumerable craft. On Michigan and Prairie avenues, the latter two blocks east, south of Sixteenth street, the domestic architecture of Chicago is seen at its best. Every available material, from wood, brick, sandstone and limestone to granite, marble and terra cotta, has been employed, and wrought up into forms of beauty hardly less creditable to the merchant prince who could appreciate than to the architect who could design them. Passing the Jewish Synagogue of the Sons of Peace [street number 1455] and the fine Universalist Church of St. Paul, with its noble portico and beautiful rose-window, Twentieth street is reached. Here, on the northeast corner, has been erected a magnificent house for the Calumet Club. It is in the Queen Anne style, and cost, with the ground and furniture, about a quarter of a million dollars. On the northwest corner stands the handsome edifice of the Second Presbyterian Society. One block east and south are the First Presbyterian Church and the Synagogue of the Sinai Congregation. Two blocks west, at 2020 State street, are the headquarters of the City (Cable) Railway Company, where is exerted the force which propels, through many miles of streets, the hundreds of cable cars which the visitor sees gliding noiselessly along. At Twenty-third street, Immanuel (Baptist) Church, on the right, and the Church of the Messiah (Unitarian), on the left, are passed. Near Twenty-fourth street are Christ (Episcopal Reformed) Church and the Moseley Grammar School. Between Twenty-fifth and Twenty-sixth streets, on the east side, is Plymouth (Congregational) Church, a fine edifice; and at the south-east corner of the latter, Trinity (Episcopal) Church, a neat, double-turreted, gothic structure. South of Thirty-third street many vacant lots are encountered, and the boulevard, beautiful throughout, assumes a suburban character. From Thirty-third or Thirty-fifth street, the University of Chicago [see Educational institutions] and the Douglas Monument may conveniently be visited. They are located a few blocks east, near Cottage Grove ave-





GRAND PACIFIC HOTEL, CORNER OF CLARK AND JACKSON STREETS.

nue. Having pursued his way to Thirty-ninth street (Oakwood boulevard), where he enters the township of Hyde Park, the visitor will proceed to Washington Park (formerly known as the West Division of the South Park), by Drexel boulevard. This magnificent drive, which is 200 feet wide throughout, and a mile and a quarter in length, is laid out after the model of the celebrated Avenue l'Imperatrice, at Paris. Parallel with it, five blocks west, runs Grand boulevard, by which the return journey may be made. An immense amount of money has been expended on the two South parks, Washington and Jackson [see Map], and, as far as completed, they are delightful pleasure resorts; the former, which contains one of the largest unbroken lawns in the world, and also a fine conservatory, being not unlike the famous Kew Gardens, near London. It may be mentioned that a dummy railway has been laid from Oakwood boulevard south to Fifty-fifth street, along which it runs east, to near the north end of Jackson Park [see Map]. Fifty-fifth street, for  $4\frac{1}{4}$  miles west of Washington Park, has been laid out as part of the encircling system, and given the name of Garfield boulevard. It is an almost perfect drive, but its extension northward, as shown in the map, will not be completed for some time.

### **Hotels.**

The hotels of Chicago have a world-wide reputation. The Palmer House, an immense fire-proof structure, occupying almost an entire square on the southeast corner of State and Monroe streets, is one of the finest buildings in the City, representing, with its furniture and the ground upon which it stands, a capital of nearly \$4,000,000. It contains 718 rooms, and it is claimed that its decoration alone costs an annual sum of \$100,000. The Grand Pacific is a magnificent pile, extending from Clark to La Salle street, on the north side of Jackson street. It is six stories high, sumptuously furnished throughout, and celebrated for its cuisine. The Tremont is a beautiful house on the southeast corner of Lake and Dearborn streets. While it can no longer be said that travelers can



TREMONT HOUSE, CORNER OF DEARBORN AND LAKE STREETS.



SHERMAN HOUSE, CORNER OF CLARK AND RANDOLPH STREETS.

sit in its doorway and shoot ducks in the slough, the Tremont House is as popular to-day as was its predecessor with the pioneers of the City. The Sherman House is a large and excellently appointed hotel, on the northwest corner of Clark and Randolph streets, opposite the Court House and City Hall. It has the advantage of being located in the business centre of the City, and within a stone's-throw of the various railroad ticket offices, which, with few exceptions, are situated on this part of Clark street. The Leland Hotel occupies a beautiful location on the Lake Front, close to the Exposition Building. Away from the noise and excitement of the business quarter this excellent hotel finds much favor. Among less expensive houses are: the Briggs, corner of Randolph and Fifth avenue; the Commercial, corner of Lake and Dearborn streets; the Crawford, corner of Wabash avenue and Adams street; and the Matteson, corner of Wabash avenue and Jackson street; all within a few minutes' walk of the Court House.

### **Theatres and Amusements.**

The theatre-going public enjoy a continual round of high class entertainment. Haverly's, Hooley's and McVicker's theatres and the Grand Opera House stand in the front rank, and the Academy of Music is rapidly advancing to an equally high position. Concerts and lectures are given in the Central Music Hall, a large and handsome building on the corner of State and Randolph streets; Farwell Hall, 148 Madison street; the Hershey Music Hall, 88 Madison street, and elsewhere.

At the close of 1882 there were in the City 2,182 manufacturing establishments, excluding those of food products. The number of employ  s was 96,654, their wages amounting to \$53,000,000. The capital employed was \$82,000,000, and the value of their products was estimated at \$311,000,000.



**FIRST NATIONAL BANK BUILDING, CORNER OF MONROE AND DEARBORN STREETS.**

The entire trade of the City in 1882 was estimated by the Chicago Tribune at \$1,045,000,000.

In this connection it only remains to notice the shipping returns. In 1882, the arrivals were 13,094 coasting vessels and 257 vessels engaged in foreign trade, a total of 13,351, with a tonnage of 4,849,950. The clearances numbered 13,299 coasting vessels and 327 vessels engaged in foreign trade, a total of 13,626, with an aggregate tonnage of 4,904,999. In the month

of September the arrivals averaged 64 per day, and the clearances 65. The marine collections amounted to \$32,102. [See Post Office and Custom House.]

### **The Banks.**

On May 1, 1883, 12 National Banks were doing business in Chicago. The total amount of their capital and surplus was \$11,905,000. They held deposits amounting to \$66,298,965, and



**CHICAGO NATIONAL BANK BUILDING, COR. DEARBORN AND MADISON STS.**

the amount of their loans was \$44,432,473. At the head of these great financial concerns stands the First National Bank, lately removed into a new and magnificent building on the northwest corner of Dearborn and Monroe streets. While the National Banks claim special recognition, a glance at the list of banks and bankers shows that numerically they are but a small proportion of the wealthy houses which furnish the merchants and manufacturers of Chicago with the banking facilities they require.

**STREETS AND AVENUES.****EXPLANATORY.**

1 To find the location or number of any house, turn to the name of the street. The streets in smaller type, noted underneath, are those that cross or run to it, and the numbers given are the corner numbers on each block of the street.

For example: To find 150 Monroe st., it will be seen that 181 is on the corner of Clark, and 187 is on the corner of La Salle, hence 150 is between these two streets.

Where no number is given, the corners and frequently the blocks are vacant, or occupied by a manufactory or house not numbered.

The letters and figures following the names of streets in heavy black type are given to ascertain their location on the map. Take, for example, **Aberdeen, (W.D.), J-13:**

On each side of the map are figures reading downward, and along the margin, top and bottom, are the letters of the alphabet, reading from left to right. J-13 refers to that point on the map where lines, if drawn from 13 to 13 east and west, and from J to J north and south, would intersect each other at right angles; Aberdeen would be found at such intersection.

**ABBREVIATIONS.**

av. .... Avenue.	n. w. .... Northwest.
bet. .... Between.	pl. .... Place.
bldg. .... Building.	rd. .... Road.
blk. .... Block.	R. R. .... Railroad.
boul. .... Boulevard.	S. .... South.
ct. .... Court.	S. D. .... South Division.
fr. .... From.	sq. .... Square.
N. .... North.	W. .... West.
N. D. .... North Division.	W. D. .... West Division.

<b>A, from 125 Southport Ave.</b>	<b>Ann, N. .... J 10</b>
to Dominick St. .... I 3	<b>Appenrade .... D 3</b>
<b>Aberdeen .... J 13</b>	<b>Arbor Place. .... I 9</b>
<b>Ada .... J 10</b>	<b>Arch, from 722 Archer Ave., to</b>
<b>Adams .... N 12</b>	Lyman. .... J 20
<b>Adams .... U 23</b>	<b>Archer Ave. .... H 23</b>
<b>Adams, W. .... G 12</b>	<b>Armitage Road. .... F 3</b>
<b>Alaska .... L 5</b>	<b>Armour .... I 3</b>
<b>Albany Ave. .... D 13</b>	<b>Arnold (see La Salle, N 12).</b>
<b>Aldine Square. .... R 22</b>	<b>Artesian Ave. .... F 10</b>
<b>Alexander .... N 18</b>	<b>Arthington Place. .... J 14</b>
<b>Alice Place .... F 3</b>	<b>Arthur, from W. 16th to</b>
<b>Allport .... J 17</b>	Lumber. .... M 17
<b>Almond, from 952 W. Taylor</b>	<b>Ash. .... F 20</b>
to Ashland. .... G 14	<b>Ashland. .... G 14</b>
<b>Amrose .... G 18</b>	<b>Ashland Ave. .... I 13</b>
<b>Anderson .... B 25</b>	<b>Ashland Ave., N. .... I 10.</b>

**Streets and Avenues—Continued.**

Astor.....	P	6	Better.....	K	14
Asylum Place.....	G	3	Bickerdike Square, from		
Atlantic.....	N	28	Bickerdike W. to Armour..	I	8
Auburn.....	K	31	Bingham.....	E	3
Augusta.....	G	7	Birch.....	C	14
Avers Ave., from W. Kinzie			Birchill.....	D	1
N. to Chicago Ave., 1st W.			Bishop Ct.....	I	11
of Hamlin Ave.....	A	8	Bismarck.....	E	6
Avon, from 267 Robey to 206			Bismarck Ct.....	J	8
Leavitt.			Bissell.....	K	3
Avon Ave.....	E	33	Bissell.....	M	26
Ayers.....	J	8	Blackhawk.....	M	5
B, from 93 Southport Ave. to			Blackhawk, W.....	I	5
Dominick.....	I	3	Blackwell.....	N	17
Babette, from Fabius W. to			Blackwell.....	K	26
Racine Ave.			Blair Place.....	M	17
Ballou.....	B	4	Blake, from 1850 Archer Ave.		
Baldwin, from 725 W. Kinzie			S. W.		
N. to Hubbard.			Blanchard Ave.....	E	32
Baltic.....	N	28	Blanche.....	I	5
Bank.....	P	6	Bliss.....	K	6
Barber.....	L	16	Block.....	M	4
Barney.....	M	30	Bloom.....	H	23
Barry Point Road.....	B	13	Bloomington.....	H	4
Bartlett.....	C	6	Bloomington.....	D	4
Bassett.....	J	31	Blucher.....	H	6
Bates.....	N	15	Blue Island Ave.....	I	16
Bauwans, from 589 N. Ash-			Bonaparte, from 80 Lock N.		
land Ave. to W. Blackhawk.			E. to Arch.		
Beach.....	M	14	Bond.....	B	16
Beach Ave.....	C	5	Bonfield.....	J	19
Beers.....	H	23	Bonney.....	B	19
Belden Ave.....	K	2	Bonney, from Genesee Ave.		
Belden Place, from 458 Belden			W. to Mowry.....	B	18
den Ave. N. W. half block.			Boon.....	G	14
Belknap.....	K	15	Boston Ave.....	L	13
Bellevue Place.....	P	7	Bowen.....	T	28
Benson.....	J	20	Bowery, from 288 W. Van		
Berlin.....	F	2	Buren to W. Congress.		
Best Ave.....	K	1	Bradley.....	J	6
Bethuel, from W. 16th S. to			Brand.....	M	26
W. 19th St.			Bremen Place.....	F	3
Bickerdike, from 412 W. Indi-			Bremer.....	M	7
ana to 403 W. Chicago Ave.			Breslau.....	F	3



**Streets and Avenues—Continued.**

Brigham.....	H	5	Central Park Ave., N.....	B	8
Brighton Park Station.....	E	22	Centre.....	L	3
Bristol.....	M	25	Centre Ave.....	J	13
Broad.....	I	20	Champlain.....	G	21
Brook.....	T	23	Champlain.....	S	26
Bross Ave., from Long John			Chapin, from Currier W. to		
S. W. to City Limits.			543 Noble.		
Brown.....	K	16	Charles, from W. Van Buren		
Bryan Place.....	I	10	S. to W. Harrison, 1st W.		
Bryant.....	R	22	of the river.		
Bryson.....	F	6	Charles Ave.....	R	32
Buchanan Ave.....	B	25	Charles Place, from 324 Fifth		
Buena Vista Place, from			Ave. W. to 316 Franklin.		
Emerald Ave., S. E.			Charlotte.....	B	14
Bunker.....	L	15	Charlton.....	I	21
Burling.....	L	4	Chase.....	J	7
Burlington.....	M	16	Chatham Ct., from Hobbie		
Burroughs.....	I	27	N. to 198 Division.		
Burtis.....	G	27	Cherry.....	K	6
Burton.....	O	5	Chesnut.....	N	30
Bushnell.....	N	18	Chestnut.....	P	7
Butler.....	M	21	Chestnut Place.....	O	7
Butterfield.....	O	22	Chicago Ave.....	O	7
Byford Ave.....	B	16	Chicago Ave., W.....	G	7
C., from 69 Southport Ave. W.			Church.....	M	4
to Dominick.....	I	3	Church Ct., from 86 Mor-		
Calhoun Place.....	N	11	gan W. to Centre Ave.		
California Ave.....	E	13	Churchill.....	G	4
Calumet Ave.....	Q	21	Church Place.....	J	20
Campbell Ave.....	F	13	Cicero Ct., from W. Van		
Canal.....	M	12	Buren to W. Harrison, 1st		
Canal, N.....	M	10	W. of Campbell.		
Canal Place.....	I	3	Clara Place.....	F	2
Canalport Ave.....	K	17	Clarinda.....	H	7
Carl.....	N	5	Clark.....	O	29
Carpenter, N.....	K	10	Clark, N.....	O	8
Carroll.....	G	9	Clarkson Ct.....	E	10
Cass.....	P	8	Clay.....	K	4
Cedar.....	N	30	Clayton.....	K	17
Cedar.....	P	6	Cleaver.....	I	6
Central Ave., from 9 S. Water			Cleveland.....	M	30
S. to Randolph.			Clifton Park Ave. (see		
Central Boulevard.....	C	8	Cynthia, B 17).		
Central Park Ave.....	B	16	Clinton Ave.....	D	28

**Streets and Avenues—Continued.**

Clinton Ave.....	S	24	Court Place, from Market to		
Clinton, N.....	M	10	State, between Randolph		
Clinton, S.....	M	12	and Washington.		
Clybourn Ave.....	I	2	Cox.....	G	5
Clybourn Place.....	G	4	Crawford, from 945 22d St. to		
Clyde, from 481 Clybourn Ave.			nr. Archer Ave.		
N. E. to Centre.			Crawford Ave.....	A	10
Coblentz.....	F	3	Crawford Ct., from 20 Mc-		
Colfax Ave.....	R	32	Glashen, W. to Crawford.		
College.....	R	21	Crenshaw, from 543 Oakley		
Collins.....	C	16	Ave. W. to Washtenaw Ave.		
Cologne.....	I	19	Crittenden, from Currier W.		
Colorado Ave.....	A	14	to 509 Noble.		
Commercial.....	H	4	Crooked, from 20 Southport		
Concord Place.....	K	5	Ave. S. E. half block.		
Congress.....	P	13	Crosby.....	L	6
Congress, W., from 259 Clin-			Cross.....	C	17
ton to Jefferson, and from			Crown Place.....	E	18
Halsted to Western Ave.			Crystal, from 555 N. Robey to		
Congress Park, from 1112 W.			N. Leavitt.		
Van Buren to W. Harrison.			Currier.....	J	7
Connor.....	M	5	Curtis.....	K	10
Conrad, from Ruble W. to 682			Cushman.....	L	26
S. Union.			Cynthia.....	B	17
Cook.....	K	26	Cypress, from Kendall S. to		
Cooper.....	G	32	945 W. 12th.		
Cooper.....	I	2	Daly.....	F	22
Cork, from 215 N. Ashland			Damon.....	K	14
Ave. W. to N. Paulina.			Dana Ave.....	F	6
Cornelia.....	E	8	Dashiel Ave.....	L	21
Cornelia.....	I	7	Daniel.....	B	25
Cornell.....	I	7	Davis.....	F	6
Cornell.....	V	28	Davis.....	F	32
Cortez.....	E	7	Davlin, from W. Lake N. to		
Cortland.....	G	4	Kinzie, 1st W. of Hamlin		
Corwin, from W. 15th S. to			Ave.		
W. 16th, 1st W. of Lincoln.			Dayton.....	K	3
Corwin Place.....	H	18	Dean, from N. Paulina N. W.		
Cottage Grove Ave.....	R	20	to Brigham.		
Couch Place, from Market to			Dearborn.....	O	11
State, between Lake and			Dearborn Ave.....	O	8
Randolph.			Dearborn Place, from Ran-		
Coulter.....	F	18	dolph to Madison, 1st E.		
Coventry.....	I	4	of Wabash Ave.		

**Streets and Avenues — Continued.**

Deering.....	J	19	Edgar.....	I	4
De Kalb.....	G	14	Edward.....	L	3
De Koven.....	L	14	Edward.....	G	4
Delaware.....	P	4	Egan Ave.....	L	23
Deming Ct.....	L	2	Egandale Ave.....	T	31
Depot, for 157 Stewart Ave.			Eighteenth.....	O	17
W. to 642 Halstead.			Eighteenth, W.....	L	16
Depuyster.....	L	13	Eldridge Ct.....	P	14
Desplaines.....	L	27	Eleventh, from 403 S. Mor-		
Desplaines, N.....	L	10	gan W. to May.		
Dexter.....	K	29	Elgin.....	N	17
Dickens Ave.....	B	3	Elias, from 664 Archer Ave.		
Dickey.....	M	32	S. E. half block.		
Dickey Ave.....	C	5	Elizabeth.....	J	10
Dickson.....	I	6	Elk.....	I	4
Dieden, from 217 Elston Ave.			Elkgrove.....	H	4
to Currier.			Ellen.....	G	6
Diller.....	F	9	Ellis Ave.....	S	22
Division.....	M	6	Ellis Park, from Prospect		
Division, W.....	E	6	Place S. to 136 37th St.		
Diversy Ave.....	J	1	Ellsworth.....	M	4
Dix, from the river to 100 W.			Elm.....	P	16
Chicago Ave.			Elston Ave.....	I	4
Dock.....	P	9	Emerald.....	K	20
Dodge.....	N	15	Emerald Ave.....	L	21
Dominick.....	I	3	Emery.....	C	26
Douglas Ave.....	L	12	Emerson Ave.....	G	8
Douglas Boulevard.....	B	15	Emily.....	H	7
Drake Ave.....	B	8	Emma.....	I	7
Drexel Ave.....	S	31	Ems.....	F	3
Dudley.....	H	7	Englewood.....	O	30
Dunn, from 45 W. Kinzie N.			Englewood Ave.....	L	31
W. to Cook.			Erie.....	Q	8
Dunning.....	J	2	Erie, W.....	G	8
Dussold.....	L	15	Eugenie.....	M	5
Eagle, from 21 N. Desplaines			Evans Ave.....	S	32
to 21 N. Halsted.			Evans Ct.....	L	16
Earl, from 1490 Garibaldi W			Evergreen.....	G	6
to Stewart Ave.			Evergreen Ave.....	E	1
Eastman.....	K	6	Evergreen Place, from 369		
Ebenhart.....	C	6	Leavitt to S. Oakley Ave.		
Eckhart.....	M	25	Everett.....	T	31
Eda.....	P	22	Everetts.....	H	27
Edbrook Place.....	F	3	Ewing.....	L	14

Streets and Avenues—Continued.

Ewing Place . . . . .	G	5	Ford . . . . .	M	29
Exchange Place, from Wash-			Forest Ave. . . . .	F	2
ington to Madison, between			Forest Ave. . . . .	Q	21
Clark and La Salle.			Forquer . . . . .	L	14
Fabius, from 52 Kroger to Lin-			Forsyth . . . . .	A	18
coln Ave.			Fortieth . . . . .	O	23
Fairfield Ave. . . . .	E	10	Forty-first . . . . .	P	23
Fairview Ave. . . . .	F	2	Forty-second . . . . .	P	24
Fake, from 22 Lyman N. W.			Forty-third . . . . .	G	24
to Bonaparte.			Forty-third St. Station . . . . .	N	24
Fall, from 1161 W. Lake to			Forty-fourth . . . . .	G	24
Warren Ave.			Forty-fifth . . . . .	G	25
Farrell . . . . .	J	19	Forty-sixth . . . . .	G	25
Fay, from 89 W. Erie to Pratt.			Forty-seventh . . . . .	G	25
Farwell Ave. . . . .	S	32	Forty-eighth . . . . .	G	26
Ferdinand . . . . .	G	9	Forty-ninth . . . . .	G	26
Fifteenth . . . . .	O	16	Fourteenth . . . . .	O	15
Fifteenth, W. . . . .	L	16	Fourteenth, W. . . . .	L	15
Fifth Ave. . . . .	N	12	Fourth Ave. . . . .	O	14
Fiftieth . . . . .	G	27	Fowler . . . . .	G	5
Fifty-first . . . . .	G	27	Fox . . . . .	J	5
Fifty-first St. Station . . . . .	O	27	Fox . . . . .	J	20
Fifty-second . . . . .	G	27	Francis . . . . .	E	3
Fifty-third . . . . .	G	27	Francisco . . . . .	D	13
Fifty-fourth . . . . .	G	28	Frank . . . . .	J	15
Fifty-fifth . . . . .	P	28	Frankfort . . . . .	F	3
Fifty-fifth St. Station . . . . .	N	28	Franklin . . . . .	N	12
Fifty-sixth . . . . .	G	29	Franklin, N. . . . .	N	8
Fifty-seventh . . . . .	G	29	Frederick . . . . .	A	5
Fifty-eighth . . . . .	G	29	Frederick . . . . .	L	2
Fifty-ninth . . . . .	G	30	Frederick Ave. . . . .	U	23
Fig (see Tell Place, I 6).			Fremont . . . . .	K	3
Fillmore . . . . .	D	14	Front, from 344 N. Halsted		
Finnell . . . . .	N	18	to Elston Ave.		
Fisk . . . . .	K	17	Fry . . . . .	J	7
Fitzhugh . . . . .	B	25	Fuller . . . . .	I	19
Fleetwood . . . . .	J	4	Fullerton Ave. . . . .	J	2
Florence . . . . .	F	24	Fullerton Ave., W. . . . .	D	3
Florence . . . . .	K	1	Fulton . . . . .	J	10
Florimond . . . . .	N	4	Gage . . . . .	K	23
Flournoy . . . . .	D	14	Gano . . . . .	Q	20
Follansbee . . . . .	D	2	Garden, between Morgan and		
Fontenoy Ct., from 1152 Mil-			Aberdeen, and Van Buren		
waukee Ave. to Park.			and Jackson.		

**Streets and Avenues—Continued.**

Gardner.....	L	6	Grove.....	M	17
Garfield Ave.....	L	3	Grove.....	T	27
Garibaldi.....	N	21	Grove Ct., N.....	L	3
Geary, from 437 Chestnut to Walton Place.....			Groveland Ct.....	R	23
Genesee Ave.....	B	16	Grove Park Way.....	T	26
Geneva, from Central Park Ave. to Mowry.....			Groveland Park Ave.....	S	20
Genevieve.....	J	26	Gunn.....	M	30
George, from Dix to 50 Elston Ave.....			Gurley.....	J	14
George Place, from W. Kinzie N. half block, 1st W. Robey.....			Haddock, from Wabash Ave. to Franklin, bet. Water and Lake.....		
Gilpin Place.....	J	14	Haines.....	K	7
Girard.....	H	4	Halsted.....	K	18
Goethe.....	M	6	Halsted, N.....	L	10
Gold.....	K	13	Hamburg.....	F	3
Good.....	K	14	Hamilton.....	G	12
Goodspeed.....	H	27	Hamlin Ave.....	A	8
Goodwin.....	B	15	Hammond.....	M	4
Gordon.....	L	24	Hancock.....	B	4
Goshen.....	M	25	Hanover.....	M	19
Graco.....	L	6	Harding Ave.....	A	8
Grand Ave.....	D	7	Harmon Ct.....	P	14
Grand Boulevard.....	R	24	Harrison.....	O	13
Granger.....	M	6	Harrison, W.....	L	13
Grant.....	O	5	Hart.....	F	24
Grant Ave.....	V	31	Harvard.....	D	14
Grant Place.....	M	3	Hastings.....	I	15
Graves Place, from 500 Cottage Grove Ave. to 33d St.....			Haven, from 1526 Garibaldi to Stewart Ave.....		
Greeley Place, from George, S. half block, 1st W. of Sangamon.....			Hawthorn.....	K	5
Green.....	D	22	Haynes Ct., from 698 Archer Ave. to Lyman.....		
Green.....	K	13	Hein.....	M	6
Green.....	M	25	Heine,.....	D	4
Green, N.....	K	10	Henry.....	I	16
Greenshaw.....	F	15	Henry Ct.....	E	3
Greenwood Ave.....	D	2	Hermitage Ave.....	H	13
Greenwood Ave.....	T	31	Herdon.....	J	3
Griffin Ave.....	B	1	Herring.....	G	30
Gross, from Kedzie Ave. E. one block.....			Hervey.....	G	3
			Hickory.....	K	6
			Hickory.....	J	19
			High.....	I	2
			Hills.....	M	6

Streets and Avenues—Continued.

Human.....	H	17	Illinois.....	P	9
Hinche, from 192 Clybourn Ave. to 258 Blackhawk.			Indiana.....	Q	8
Hirsch.....	E	5	Indiana, W.....	J	9
Hobbie.....	L	7	Indiana Ave.....	Q	17
Hoey.....	K	19	Ingleside Ave.....	T	29
Hoffman Ave.....	E	3	Ingraham.....	I	6
Holden.....	N	15	Inkerman.....	N	25
Holden Place, from Randolph Hto 21st, between Wabash Ave. and State.			Iowa.....	G	7
Holmes.....	K	29	Iron.....	I	21
Holt.....	I	7	Irving Ave., from 873 W. Adams to W. Taylor.		
Homan Ave.....	C	20	Irving Place.....	G	14
Homan Ave., N.....	C	8	Isabel Ct.....	C	7
Homer.....	G	4	Jackson.....	N	12
Honore.....	H	18	Jackson, W.....	E	12
Hooker.....	K	6	James.....	J	20
Hope.....	K	14	Jane.....	H	6
Houston.....	H	6	Jasper.....	J	21
Howard Ct.....	D	7	Jay.....	J	3
Howe.....	L	4	Jefferson.....	L	12
Hoyne.....	G	32	Jefferson.....	V	28
Hoyne Ave.....	G	13	Jefferson, N.....	L	10
Hoyne Ave., N.....	G	10	Jessie Place, from 769 W. Kinzie N. half block.		
Hoyt.....	L	32	John.....	K	18
Hubbard.....	G	9	Johnson.....	K	16
Hubbard Ct.....	P	14	Johnson Ave., from 31 27th to 28th St.		
Hudson.....	F	21	Johnson Place.....	S	23
Hull, from Eugenie to Menominee, 1st E. of Hurlbut.			Joliet.....	F	22
Humboldt.....	D	4	Jones.....	H	22
Humboldt Ave.....	B	3	Joseph.....	D	23
Humboldt Boulevard.....	D	1	Joseph.....	K	19
Hunt.....	J	8	Judd.....	M	15
Hurlbut.....	M	4	Judson, from Eastman to Blackhawk, 2d W. N. Halsted.		
Huron.....	Q	8	Julia Ct.....	E	3
Huron, W.....	G	8	Julian.....	H	5
Hussum.....	D	3	Julius, from 103 11th, S. one block.		
Hyde Park.....	V	28	Kansas.....	H	15
Idaho.....	F	14	Kankakee Ave.....	R	30
Iglehart Place, from 26th to 28th, one block E. of 239 Cottage Grove Ave.			Kedzie Ave.....	C	20

**Streets and Avenues—Continued.**

Keeley.....	J	20	Leipzig.....	G	2
Keenon.....	H	5	Lemoyne.....	G	5
Keith.....	J	8	Lessing, from 124 W. Chicago		
Kenwood.....	U	26	Ave. to Dix.		
Kendall, from 840 W. Polk to			Levee, from Ashland Ave. to		
W. Taylor.			the river.		
Kimbark Ave.....	U	29	Lewis.....	J	3
Kimbell.....	C	4	Lexington.....	G	14
Kingsbury.....	M	8	Lexington Ave.....	T	31
Kinsche.....	L	5	Liberty.....	L	15
Kinzie.....	O	9	Lill Ave.....	J	2
Kinzie, W.....	J	9	Lime, from the river to 27th St.		
Kissam (see Vernon Park			Lilley Ave.....	E	23
Place, J 14).			Linden Ave.....	E	2
Kossuth.....	M	19	Lincoln.....	H	18
Kramer.....	L	15	Lincoln.....	T	32
Kroger.....	J	4	Lincoln, N.....	H	10
Labar (see Vedder, L 6).			Lincoln Ave.....	L	2
Lafayette Place.....	O	7	Lincoln Place.....	M	3
Lafin.....	I	13	Linden Ave., from Fuller-		
Lake.....	N	10	ton Ave. N. to Diversy Ave.,		
Lake W.....	G	10	1st E. of California Ave.		
Lake Ave.....	S	22	Linwood Place.....	E	7
Lake Park Place.....	Q	15	Lisle.....	L	17
Lane Place.....	M	3	Lock.....	I	19
Langley.....	S	25	Lockport.....	G	22
Langdon, from 185 Clybourn			Locust.....	M	7
Ave. S. W. half block.			Locust Place, from N. La		
Langley Ave.....	S	32	Salle to 311 N. Clark.		
Larrabee.....	L	4	Logan, from 109 Hickory to		
La Salle.....	N	12	R. R. Track.		
La Salle, N.....	N	8	Logan Square.....	D	1
Laughton.....	F	18	Lonergan.....	N	4
Laurel.....	K	22	Long John.....	G	22
Laurel Ave.....	E	2	Loomis.....	J	13
Law.....	L	13	Louisa.....	I	22
Lawndale Ave.....	B	6	Lowe Ave.....	L	21
Lawrence.....	J	3	Lubeck.....	F	3
Layton.....	L	25	Luce, from 61 W. Blackhawk		
Leavitt.....	G	12	N. W. half block.		
Leavitt, N.....	G	10	Lull.....	H	6
Leavitt Ave.....	G	31	Lumber.....	M	17
Lee Place, from 273 N. Robey			Lundy's Lane.....	G	21
to N. Hoyne Ave.			Lyman.....	J	20

**Streets and Avenues — Continued.**

Lydia, from 54 N. Desplaines to Halsted.		McDermot.....J	20
Lynch Place.....I	21	McGlashen, from 449 22d to Archer Ave.	
Lytle, from 474 W. Harrison to W. 12th St.		McGovern.....D	2
Macalister Place.....J	14	McGregor.....N	18
Macedonia.....H	6	McHenry.....J	4
Madison.....N	11	McIlroy.....C	7
Madison, W.....D	11	McKibbin Ave.....D	25
Madison, Ave.....S	29	McLeod Ave.....E	32
Main.....J	19	McMullen Ct.....J	17
Mantene Ct., from 912 Milwaukee Ave., S. W.		McReynolds.....H	5
Maple.....O	6	Mead.....C	8
Maple.....N	30	Meaghan, from Ashland Ave. E. half block, 1st S. 22d.	
Maplewood.....F	10	Meagher.....L	16
Maplewood Ave.....F	20	Mechanic.....M	17
Maplewood Ave., N.....F	5	Mendall, from 141 Clybourn Place to Canal Place.	
Maplewood Place, from Ogden Ave. to W. 15th, 2d W. of Western Ave.		Menominee.....M	4
Marcy.....J	4	Mentmore Ave.....B	2
Margaret.....J	16	Merian, from W. 21st to W. 22d, 1st E. of Kedzie Ave.	
Margaret Place, from W. 16th to W. 19th, 2d E. of Crawford Ave.		Meridian from 59 Desplaines to 56 Halsted.	
Mariana.....J	1	Michigan.....P	9
Marion Place.....H	6	Michigan Ave.....P	18
Mark.....L	17	Mill, from Ashland Ave. to Jones, 1st S. of 32d.	
Market.....M	13	Millard Ave.....B	19
Market, N.....M	8	Miller, from 346 W. Harrison to 357 W. Taylor.	
Market Square.....I	20	Milton Ave.....M	7
Marshall.....L	24	Milwaukee Ave.....G	4
Marshfield Ave.....I	31	Moffat.....E	4
Marvin.....F	18	Mohawk.....M	4
Mary.....K	19	Moltke.....E	6
Mather.....L	14	Monroe.....N	12
Mathew, from 215 Ogden Ave. to S. Wood.		Monroe.....M	32
Maxwell.....L	15	Monroe W.....E	12
May.....J	17	Montana.....J	2
May, N.....J	10	Montgomery.....E	23
McAlpine.....F	21	Moore, from 366 Division S. one block.	
McChesney Ave.....R	32	Moore.....F	18



**Streets and Avenues—Continued.**

Moore Place, from W. 16th S. to W. 19th, 2d S. of 22d.		North Water.	O	9
Moorman, from Lull Place to 591 N. Paulina.		Norton, from 154 Gurley to Taylor.		
Morgan, N.	K 10	Norwood.	C	6
Morgan, S.	K 16	Nursery.	J	3
Morris.	M 28	Nutt.	K	16
Mospratt.	K 21	Oak N.	N	27
Mound Ave.	N 27	Oak.	P	7
Mowry.	A 20	Oak Ave.	R	22
Mozart.	E 4	Oakley Ave.	F	13
Murray.	L 27	Oakley Ave., N.	F	10
Myrtle.	T 32	Oakwood (see Bellevue Place, P 7).		
Myrtle Ave.	E 2	Oakwood Ave.	S	23
Myrtle Ave.	T 24	Oakwood Boulevard	R	23
Napoleon Place.	M 19	O'Brien.	L	15
Nassau, from 1326 W. Jack- son to W. Van Buren.		Ogden Ave.	E	32
Nebraska.	I 14	Ogden Ave.	H	13
Newberry.	K 16	Ogden Place.	H	11
Newton.	H 7	Oglesby Ave.	U	32
Niagara.	M 27	Ohio.	Q	8
Nichols, from 1424 Fulton to Central Park Boulevard.		Ohio W.	G	8
Nineteenth.	O 17	Olive, from 976 W. Taylor to 1001 W. 12th.		
Nineteenth, W.	L 17	Oliver Place, from Walker Ct. half block W.		
Nineteenth Place.	K 17	O'Neil.	K	18
Nixon, from 575 W. Polk to W. Taylor.		Ontario.	Q	8
Noble.	J 8	Orchard.	L	4
Normal Park Way.	M 32	Osborne, from 549 W. Indiana to W. Ohio.		
North Ave.	M 5	Osgood.	K	3
North Ave., W.	E 5	Oswego, from 575 W. Kinzie N. half block.		
North Branch.	J 6	Oswell.	O	27
Northern Ave.	R 19	Otis.	L	6
North Grove Ct., from 711 Larrabee to Orchard.		Owasco, from 223 Western Ave. W. half block, and from Rockwell to Califor- nia Ave., 1st N. of W. Van Buren.		
North Park Ave.	N 3	Oxford Ct.	R	23
North Pier, from Michigan to the Lake.		Pacific Ave.	O	14
North Place, from Armitage N. W. half block, 1st W. Elston Ave.		Page.	H	11
Northumberland.	I 26			

**Streets and Avenues — Continued.**

Palatine.....	B	15	Powell Ave., from Milwaukee Ave., to W. Fullerton Ave., 1st W. of Western Ave.		
Palmer Square.....	D	3	Prairie Ave.....	Q	21
Park.....	H	5	Pratt.....	K	8
Park.....	V	28	Pratt Place, from 219 Hoyne W. three-fourths block.		
Park Ave.....	G	10	Prentiss.....	P	22
Park Front, from 787 N. Clark to Wells.			Price Place (see Boston Ave., L 13).		
Parmelee.....	F	18	Prince.....	A	5
Parnell.....	M	21	Prospect Place, from 722 Cottage Grove Ave. to Vincennes Ave.		
Paulina.....	H	13	Pullman Ave.....	D	25
Paulina, N.....	I	10	Purple.....	N	17
Pavillon Park Way.....	I	28	Putnam, from W. Erie to 19 Chicago Ave.		
Pearce.....	L	13	Quarry.....	K	19
Pearl.....	L	3	Quincy.....	N	12
Pearson.....	P	7	Quinn.....	K	20
Peck Ct.....	P	14	Racine Ave.....	J	3
Penn, from 175 Division N. to Vedder.			Railroad.....	F	18
Peoria.....	K	13	Randolph.....	N	11
Peoria, N.....	K	10	Randolph, W.....	J	11
Perry.....	I	2	Rawson.....	J	5
Perry Ave.....	F	3	Ray.....	Q	20
Peterson.....	G	4	Raymond, from 787 N. Robey half block.		
Phare Ave.....	E	28	Rebecca.....	I	18
Phillips.....	K	8	Redfield.....	I	14
Phinnie Ave., N.....	C	8	Rees.....	K	6
Pier, from 184 Lake Ave. to the lake.			Rhine.....	F	2
Pierce Ave....	C	5	Rhodes Ave.....	R	21
Pine.....	P	8	Rice, from 323 N. Wood to N. Lincoln.		
Pitney.....	I	20	Rice Place.....	G	17
Pleasant.....	L	6	Richmond.....	D	1
Pleasant Place.....	F	3	Ridgeville Road.....	H	4
Plum.....	I	14	Ridgeway Ave.....	B	6
Poe, from 26 Kroger to Clyde.			Ritchie Place, from 231 Goethe to Banks.		
Point.....	E	3	River.....	P	9
Polk.....	N	14	Roberts.....	L	8
Polk, W.....	L	14			
Poplar.....	K	20			
Portland Ave.....	N	21			
Portland Place (see Pearson, P. 7).					
Post, from Ashland Ave. to Levee.					

**Streets and Avenues — Continued.**

Robey.....	G	13	Seventeenth.....	O	16
Robey, N.....	G	10	Seventeenth, W.....	L	16
Rockwell.....	E	13	Seward.....	M	17
Rockwell, N.....	E	7	Seymour.....	F	10
Roe, from S. Leavitt to Olive.			Shaughnessy, from 9 Goethe to Sigel.		
Rose.....	I	7	Sheffield Ave.....	K	3
Rosebud.....	F	4	Shelby Ct., from W. 19th to W. 20th, 1 W. of Brown.		
Rosenmarker.....	M	29	Sheldon.....	I	10
Ross Ave.....	Q	28	Sheridan.....	C	8
Roy.....	K	29	Sheridan Ave.....	D	25
Rubble.....	L	17	Sheridan Ave.....	U	32
Rucker.....	J	8	Sheridan Place.....	N	17
Rumsey.....	I	7	Sherman.....	L	32
Rundel, from Morgan to Cen- ter Ave., between W. Mad- ison and W. Monroe.			Sherman.....	N	14
Rush.....	P	8	Sherman Place, from 132 Pine, half block.		
Rutter.....	M	26	Shober.....	G	5
Rutter.....	N	25	Sholto, from 368 W. Harrison to 11th.		
Sackett.....	F	24	Short, from 180 Hickory to Cologne.		
Sacramento Ave.....	D	13	Shurtleff Ave.....	N	21
Sacramento Square.....	D	8	Sibley, from 522 W. Harrison to 512 W. Taylor.		
Sampson (see W. 13th, I 15).			Sigel.....	N	9
Samuel.....	H	7	Silver.....	K	13
San Francisco Ave.....	D	28	Simons Ave.....	C	6
Sangamon.....	K	13	Sixteenth.....	O	16
Sangamon, N.....	K	10	Sixteenth, W.....	L	16
Sanger.....	L	18	Sixtieth.....	N	30
Saratoga.....	G	21	Sixty-first.....	G	30
Sawyer Ave.....	C	18	Sixty-second.....	M	31
Scammon.....	J	28	Sixty-third.....	G	31
Schiller.....	N	5	Sixty-fourth.....	G	31
School.....	N	25	Sixty-fifth.....	G	32
Scott.....	P	6	Sixty-sixth.....	H	32
Sebor.....	L	14	Sixty-seventh.....	H	32
Sedgwick.....	M	7	Sloan.....	J	6
Sedgwick Ct., from 338 Divi- sion to Elm.			Smart, from W. Kinzie to Hubbard, 1st W. of Wood.		
Seeley.....	G	32	Smith.....	D	22
Seeley Ave.....	G	13	Smith Ave.....	K	5
Selden.....	H	14			
Seminary Ave.....	J	3			
Sample.....	K	29			
Seneca.....	Q	8			

Streets and Avenues—Continued.

Snell.....	J	8	Sullivan.....	M	6
Snow, from C. & N. W. R. Crossing to the river, 1st N. of Fullerton Ave.			Sultan.....	N	25
Snowdondale.....	I	26	Summit.....	G	22
South La Salle.....	O	21	Sumner, from W. 15th to 764 W. 16th		
South Park Ave.....	R	21	Superior.....	Q	8
Southport Ave.....	I	3	Superior, W.....	G	8
South Water.....	N	10	Swan.....	M	25
Spaulding Ave.....	C	20	Swift.....	B	19
Spencer.....	D	24	Swift Place.....	M	20
Spencer.....	K	29	Talman Ave.....	E	10
Spears Ave.....	E	24	Taylor.....	N	14
Spring.....	L	17	Taylor, W.....	L	14
Springfield Ave.....	A	8	Tell Ct.....	M	4
Springer Ave.....	J	21	Tell Place.....	I	6
Spruce.....	I	14	Temple.....	J	8
St. Clair.....	Q	8	Third Ave.....	O	14
St. Georges.....	E	3	Thirteenth.....	P	15
St. John's Place.....	I	10	Thirteenth, W.....	I	15
St. Lawrence Ave.....	R	26	Thirteenth Place.....	I	15
St. Louis Ave.....	B	16	Thirtieth.....	O	20
Stanton Ave.....	R	22	Thirty-first.....	O	20
Star Ave.....	U	32	Thirty-second.....	K	20
Starr.....	M	5	Thirty-third.....	K	21
State.....	P	12	Thirty-third Ct.....	K	21
State, N.....	P	8	Thirty-fourth.....	K	21
Station, from N. Leavitt to Western Ave., 1st N. of Fullerton Ave.			Thirty-fourth Ct.....	K	21
Staunton, from 1061 W. Lake to 1049 Madison.			Thirty-fifth.....	K	21
Stave.....	E	3	Thirty-fifth Ct.....	K	22
Stearns.....	K	20	Thirty-sixth.....	K	22
Stein, from Redfield, N. W. one block.			Thirty-seventh.....	K	22
Stephenson.....	N	15	Thirty-seventh Ct....	K	23
Stewart Ave.....	M	22	Thirty-eighth.....	K	22
Stone.....	P	6	Thirty-eighth Ct....	K	23
Stone Ave.....	J	26	Thirty-ninth.....	N	23
Stowell.....	N	15	Thomas.....	G	6
String.....	L	17	Thomas Ave.....	D	7
String, from 131 W. 16th to 80 Canalport Ave.			Thomas Ave.....	H	27
			Tuompson.....	F	5
			Throop.....	J	13
			Throop.....	J	17
			Tinkham Ave....	B	8
			Todd.....	M	17
			Tompkins Place.....	U	23

**Streets and Avenues—Continued.**

Tondem.....	D	3	Vail.....	G	32
Town, from 228 North Ave. to Blackhawk.			Van Buren.....	N	13
Townes Ct., from 194 North Ave., S. half block.			Van Buren, W.....	J	13
Townsend.....	M	8	Van Horn.....	H	17
Trace.....	N	27	Vedder.....	L	6
Tremont.....	C	13	Vermont.....	H	21
Tremont Ave.....	E	32	Vernon Ave.....	R	21
Troy.....	D	13	Vernon Park Place.....	J	14
Trumbull Ave.....	C	13	Vincennes Ave.....	R	26
Truro.....	C	16	Vincennes Place (see Johnson Place, S. 23).		
Trustee, from 559 W. Kinzie to Hubbard.			Vine.....	L	6
Tucker.....	K	22	Wabansia.....	H	4
Turner Ave.....	C	18	Wabash Ave.....	P	18
Twelfth.....	H	15	Wade, from 131 Elston Ave. to Currier.		
Twelfth, W.....	O	15	Wahl.....	J	21
Twentieth.....	O	17	Waldo Place, from 23 Des- plaines to Halsted.		
Twentieth, W.....	J	17	Walker.....	K	15
Twenty-first.....	O	17	Walker Ave.....	B	26
Twenty-first, W.....	L	17	Walker Ct., from W. 18th N. half block.		
Twenty-second.....	O	17	Wallace.....	L	21
Twenty-second, W.....	G	17	Waller, from 370 W. 12th to 353 W. 14th.		
Twenty-third.....	O	18	Walnut.....	G	10
Twenty-fourth.....	O	18	Walnut.....	T	28
Twenty-fifth.....	O	18	Walsh Ct.....	J	17
Twenty-sixth.....	O	19	Walton Place.....	P	7
Twenty-seventh.....	O	19	Ward.....	F	23
Twenty-eighth.....	P	19	Ward.....	J	3
Twenty-ninth.....	O	19	Ward Ct.....	L	7
Twomey.....	M	6	Warren Ave.....	G	11
Ullman.....	J	22	Washington.....	N	11
Underwood.....	D	24	Washington.....	O	28
Union.....	L	16	Washington, W.....	G	11
Union, N.....	L	10	Washington Place.....	O	7
Union Ave.....	R	23	Washington Square.....	O	7
Union Park Place.....	I	10	Washtenaw Ave.....	E	10
Union Place, from 1057 W. Congress to 1209 W. Harri- son.			Water, N.....	O	9
Union Place.....	L	17	Water, S.....	N	10
University Place.....	R	21	Waterville.....	J	21
Upton.....	F	4	Weage Ave.....	C	5

## Streets and Avenues—Continued.

Waver, from 325 Archer Ave. W one block.		Willard Place.....	J 11
Wayman, from N. Jefferson to 81 N. Halsted.		William Ave.....	B 6
Webster Ave.....	K 3	William.....	D 22
Weed.....	K 5	William.....	J 13
Weed Ct., from 256 Clybourn Ave., N. E. half block		William.....	M 25
Wells.....	N 8	Willow.....	K 4
Wendell.....	M 7	Wilmot Ave.....	F 4
Wentworth.....	N 28	Wilson.....	M 15
Wentworth Ave.....	N 21	Winchester.....	H 32
Werder.....	E 6	Winchester.....	H 13
Wesson.....	M 7	Winter.....	L 25
Western Ave.....	F 13	Wisconsin.....	M 4
Western Ave., N.....	F 10	Wolcott Ave.....	D 25
Weston.....	K 2	Wood.....	H 13
Wharf, from Lumber to the river.		Wood, N.....	H 10
Wharton Ave.....	T 31	Woodbine.....	F 14
Wheaton.....	C 6	Woodland.....	B 16
Whipple.....	D 13	Woodlawn Ave.....	T 20
Whitehouse.....	B 20	Wright.....	C 22
Whitehouse Place.....	M 20	Wright.....	J 4
Whiting.....	M 7	Wright.....	L 16
Wicker Ct., (see Park, H 5).		Wright.....	M 31
Wieland.....	N 5	Wrightwood Ave.....	J 1
Wilcox.....	E 12	Yeager, from 1452 W. Lake to Central Park Boulevard.	
Will, from 567 Milwaukee Ave, to Augusta.		Yeaton.....	H 15
		York.....	H 14
		Yorktown.....	G 21
		Zion Place.....	I 16

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